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Eastern Washington University is a regional, comprehensive public university primarily located in Cheney, Washington, with programs offered in Spokane and throughout the state. Eastern offers 135 areas of study, including nine master’s degrees, 12 graduate certificates, 39 graduate programs, two educational specialist degrees and one applied doctorate.

Eastern is a driving force for the culture, economy and vitality of the Inland Northwest region. The University’s beautiful campus, NCAA Division I athletics and opportunities for hands-on, real-world learning provide a classic, yet unique college experience. A focus on personal attention, faculty excellence and community collaboration allows Eastern to accomplish its mission for preparing well-rounded students ready to hit the ground running in their chosen career fields.

**EWU News**—Latest news and information from Eastern Washington University. More than 12,800 students, excellent programs, most affordable and oh, that Red Turf!
Welcome

Eastern Washington University is committed to our students’ success. In the pages of this catalog you will find academic programs designed to inspire and challenge you, to support your success. Our outstanding faculty will be your mentors and guides, helping you explore new ideas and attain the knowledge and experience you need.

At EWU, you can take advantage of a wide array of student support services. You can apply what you learn in real-world settings as well as in classrooms and labs. You can take opportunities to become engaged in the life of the campus, participating in service learning opportunities, in clubs, student organizations, and intramural sports.

We want your years at EWU to be rich and rewarding. Our commitment is to help you achieve your goals—in college and after you graduate.

Mary Cullinan
President (http://www.ewu.edu/about/administration/president)
MISSION

Our Values
EWU is dedicated to the following key values.

Access—we expand access to opportunity and success for students.

Inclusiveness—our diversity makes EWU a stronger community.

Integrity—we foster a culture of respect, commitment and honesty.

Quality—we strive for excellence in everything we do.

Student-Centered Learning Environment—students are the reason we exist.

Our Mission
EWU expands opportunities for personal transformation through excellence in learning.

EWU achieves this mission by:

• creating environments for personal transformation that enrich the lives of individuals, families, communities and society at large.
• developing faculty and staff by growing and strengthening an intellectual community and supporting professional development.
• expanding opportunity for all students by providing critical access to first generation students, underserved populations, place-bound students, and other students who may not have the opportunity for higher education.
• fostering excellence in learning through quality academic programs, undergraduate and graduate student research and individual student-faculty interaction. Students extend their learning beyond the classroom through co-curricular programs, life skills development, internship programs, volunteering and service learning.

Our Vision
EWU envisions a future of professionally, socially and culturally engaged leaders, citizens and communities.

EWU is a driving force for the culture, economy, workforce and vitality of Washington state.

Our graduates think critically and make meaningful contributions to both their career fields and their communities.
A History of Eastern Washington University

More than 100 years ago, with a contribution of $10,000, the wealthy transportation industrialist Benjamin Cheney helped the citizens of the local community fulfill their dream of an institute of higher learning. The Benjamin P. Cheney Academy opened its doors to more than 200 students in 1882.

The academy became the State Normal School at Cheney in 1889, the same year that Washington gained statehood. The school was proudly designated as an institution "for the purpose of instruction of persons, both male and female, in the art of teaching the various branches that pertain to a good common school."

The school was a fully accredited four-year degree-granting institution, offering majors in numerous subjects, when it became Eastern Washington College of Education in 1937.

The campus grew rapidly in size and program offerings in the decades following World War II and in 1961, reflecting these changes, was renamed Eastern Washington State College. As the regional needs for professionals in many fields grew, Eastern added a wide range of undergraduate and graduate degree programs. In 1977, the state legislature changed the school’s name to Eastern Washington University.

Since its inception as a teacher’s academy more than 120 years ago, Eastern has steadily responded to the higher education needs of the Inland Northwest. Today Eastern provides career preparation in diverse fields including business, technology and health care, education for civic and community leadership and engagement in the fine arts.

As a leader in the life and culture of the region, Eastern enrolls students from nearly every state in the union and more than 20 countries. The diversity and vitality of the university community has as its foundation a talented and dedicated faculty. Three-quarters of Eastern’s full-time faculty hold doctoral degrees. Maintaining a student-to-faculty ratio of approximately 21:1, Eastern continues to offer small classes, personalized instruction and individual attention.

As the higher education provider of choice for more than 13,453 (in fall 2014) students, Eastern Washington University is a major force in the civic, cultural, scientific and economic development of the state and region.

Disclaimer

This catalog provides a general guideline of courses offered by Eastern Washington University. The classes and programs described herein are implemented at the sole discretion of EWU and are subject to change at any time without notice. Information contained on classes and programs are illustrative only and are not intended to create any contractual obligation or covenant with EWU.

Limitation of Liability

Eastern Washington University’s total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to EWU for those classes or programs. In no event shall EWU be liable for any special, indirect, incidental or consequential damages, including but not limited to, loss of earnings or profits.
LOCATIONS

Cheney

Eastern Washington University, 526 5th Street, Cheney, WA 99004: EWU is located in the inland northwest and known for its scenic beauty and impressive array of recreational and entertainment activities. The university is situated on a 300-acre residential campus in Cheney, in close proximity to Spokane, a metropolitan area of more than 417,000 people, located 275 miles east of Seattle. Spokane is the heart of a region that offers students extensive opportunities for internships, research and collaboration with industries, businesses, agencies and schools. EWU has facilities at the Riverpoint Higher Education campus, that is a 25-minute drive from Cheney. Maps are inside the back cover of this catalog.

EWU Spokane

Eastern Washington University, Riverpoint campus is an integral part of Spokane’s University District. Located just east of the downtown business core, the campus includes the following facilities:

Eastern Washington University Center: 668 N. Riverpoint Blvd., Spokane WA, 99202: houses a graduate program through Eastern’s School of Social Work, graduate and undergraduate programs offered through Eastern’s College of Business and Public Administration, MFA in Creative Writing, MS in Communications, Addiction Studies minor and the BA in Interdisciplinary Studies and the Student Support Center, providing a wide range of services for students from all campuses.

Health Science Building, 310 N. Riverpoint Blvd., Spokane, WA 99202: The Health Science Building houses five state-of-the-art Eastern programs in the College of Health Science and Public Health: Occupational Therapy; Physical Therapy; Dental Hygiene; RIDE (Regional Initiatives in Dental Education; and Communication Disorders in cooperation with Washington State University, called the University Programs in Communication Disorders (UPCD).

Nursing Building, 412 E. Spokane Falls Blvd., Spokane, WA 99202-2118–PO Box 1495 Spokane, WA 99210-1495: houses the Intercollegiate College of Nursing. It was established in 1968 and remains the nation’s oldest nursing education consortium, serving as the school of nursing for Eastern Washington University, Washington State University and Whitworth College. It has five sites across the state with the main facility located in Spokane.

Statewide Locations for Eastern

In addition to the programs located in Cheney and Spokane, Eastern provides several high-demand programs to other areas in Washington. These include:

Bachelor of Arts in Business, Management
- Bellevue College
- Lower Columbia College

Bachelor of Arts in Children’s Studies
- Online degree offerings

Bachelor of Arts in Interdisciplinary Studies
- Online degree offerings

EWU Extended Campus (http://www.ewu.edu/extendedcampus)
509.359.7380

The EWU Extended Campus provides innovative learning opportunities for high school students, traditional and nontraditional learners, working professionals and the community. Extended campus programs include Running Start, International Field Studies, Eastern Online, Off Campus, Interdisciplinary Studies, Summer, and Continuing Education.

Continuing Education (http://outreach.ewu.edu/departments/continuingeducation)
509.359.7380 or toll free 800.331.9959

Continuing Education provides opportunities for working professionals to earn clock hours, continuing and professional education units, career advancement, as well as preparation for new career paths.

Eastern Online (http://outreach.ewu.edu/departments/easternonline)
509.359.2268 or toll free 800.924.6606
email (easternonline@ewu.edu)

Eastern Online offers courses in over 60 academic areas, including majors, minors, certificates, and required courses for a variety of disciplines through the University’s online learning management system. Eastern Online provides students with flexible access to EWU courses from anywhere. (Out-of-state students can check availability on our State Authorization (https://www.ewu.edu/academics/stateauthorization) page.)

Eastern Washington University (EWU) at Bellevue College (BC) (http://outreach.ewu.edu/departments/offcampus)
3000 Landerholm Circle SE, Bellevue, WA 98007
425.564.5100
email (ewubc@ewu.edu)
EWU and BC are collaborating to serve the BC student body and regional population with career advancement opportunities through high-quality baccalaureate degree completion programs. Eastern offers upper division courses on the BC campus that lead to five of EWU’s baccalaureate degrees:

- BA in Business Administration
- BA in Children’s Studies
- BA in Interdisciplinary Studies
- BA in Psychology
- BS in Technology, Applied Technology option

**Eastern Washington University (EWU) at Lower Columbia College (LCC)** ([http://outreach.ewu.edu/departments/offcampus](http://outreach.ewu.edu/departments/offcampus))

Contact Interdisciplinary Studies for information, 509.359.6524.
Contact LCC’s Regional University Center, 360.353.7800 email (ewulcc@ewu.edu)

Eastern Washington University and Lower Columbia College (LCC) are collaborating in order to serve the LCC student body and regional population with career advancement opportunities through high-quality baccalaureate degree completion programs.

Students can access an online BA in Interdisciplinary Studies degree or complete coursework at LCC in these degree fields.

**EWU degrees that are accessible at LCC**

- BA in Interdisciplinary Studies
- BAB in Business
  
  General Management
  Human Resources & Operations Management
- MBA

**Global Initiatives** ([http://global.ewu.edu](http://global.ewu.edu))

103 Hargreaves Hall
509.359.2331
e-mail (global@ewu.edu)

- Study Abroad
- International Student and Scholar Services
- Partnerships and Projects

Eastern is committed to enriching multicultural diversity through the purposeful expansion of our global presence.

**Interdisciplinary Studies** ([http://www.ewu.edu/itds](http://www.ewu.edu/itds))

509.359.2402

Interdisciplinary Studies offers baccalaureate degrees for students seeking a broad background applicable to a variety career fields. The program has the following options: Liberal Arts, Prior Learning, Addiction Studies, Pre-Occupational Therapy, or Philosophical Studies.

**Off Campus Programs** ([http://outreach.ewu.edu/departments/offcampus](http://outreach.ewu.edu/departments/offcampus))

509.359.7380

Off-campus programs enable students to take courses with EWU faculty and earn undergraduate and graduate degrees from Eastern Washington University regional campuses throughout the State.

**Current off campus program locations include the following sites:**

- Bellevue College
- Clark College
- Everett Community College
- Lower Columbia College
- North Seattle College

**Running Start (High School Students)** ([https://sites.ewu.edu/highschool](https://sites.ewu.edu/highschool))

345 Senior Hall
509.359.6155
e-mail (runningstart2@ewu.edu)

Running Start provides an opportunity for juniors and seniors in Washington's public high schools to earn EWU college credit. Students may be able to take a full college load at little or no cost.

**Summer Session** ([https://sites.ewu.edu/summersession](https://sites.ewu.edu/summersession))

509.359.6849
e-mail (summersession@ewu.edu)

Summer session is open to members of the community, college students, and working professionals to advance their academic and professional careers. With more than 100 courses condensed into 4- and 8-week sessions, Summer enables learners to make the most of their time.
ABOUT THE CATALOG

Colleges (p. 15)
Subject Codes (p. 16)
General Telephone Numbers (p. 16)

Guide to Organization of This Catalog

The catalog is organized into sections with general information about the university, an outline of academic programs and an outline of the organization of the university, academic policies and admission information for undergraduate and graduate study. The guide below explains what to look for in the central course and program listing section. We welcome any suggestions or comments on the content and usability of this catalog.

How to Read the Course Descriptions

Subject/Course Prefix Code: these letters indicate the subject area of the course.

Cross-listed: some courses will be listed between disciplines.

Note: details special instructions such as grade mode or repeatability.

Prerequisites: the courses that must be completed and any conditions that must be met prior to enrollment are indicated as prerequisites preceding the course description.

General Education Core Requirements or University Graduation Requirements: some courses are designated to meet GECR or UGR for undergraduate programs.

Course Number

Course Title: The official title of the course is listed beside the prefix and number. The course title may appear differently in other publications.

Credits: the numbers or words between parentheses indicate the credit awarded upon successful completion of the course.

When combinations of courses are listed in sequence, the first number in the parenthesis refers to the first course in the sequence. Example: BIOL 232, BIOL 233, BIOL 234.

Course Description: a brief description of the course follows the prerequisite listing indicating the most significant topics to be covered in the course.

EWU courses are numbered according to the following guidelines.

Lower Division

• 100–199 primarily for freshmen; may not be taken for graduate-level credit
• 200–299 primarily for sophomores; may not be taken for graduate-level credit

Upper Division

• 300–399 primarily for juniors and seniors; may be used for graduate-level credit only with permission of the vice provost for Academic Planning, Graduate Programs, Grants and Institutional Research

• 400–499 primarily for seniors; graduate students may count a limited number of credits from graded courses, only with program approval

Graduate Level

• 500–599 graduate level; senior undergraduates may enroll only with permission of both the department chair and vice provost for Academic Planning, Graduate Programs, Grants and Institutional Research
• 600–699 graduate level only
• 700–799 doctoral level only

All Levels

Course numbers ending in 95 through 99 indicate special courses, with the particular subject matter varying from quarter to quarter. All departments may offer these types of courses, but not all may be listed in this catalog. Check with the individual program for the availability of special courses.

• 95—internships
• 96—experimental courses
• 97—workshops, short courses, conferences, seminars (Only one workshop course of up to 3 credits may be used to fulfill graduate degree requirements.)
• 98—seminars
• 99—independent and directed study

Colleges—Departments

Arts, Letters & Education—Dean Roy Sonnema
Departments

• Art
• Education
• Modern Languages, Literatures and Philosophy
• Music
• Physical Education, Health and Recreation
• Theatre and Film

Business and Public Administration—Dean Martine Duchatelet
Departments

• Economics
• Finance and Marketing
• Information Systems and Business Analytics
• Management
• Planning and Public Administration
• Accounting

Health Science & Public Health—Dean Laureen O’Hanlon
Departments

• Communication Sciences and Disorders
• Dental Hygiene
• Health Services Administration
• Nursing
• Occupational Therapy
• Physical Therapy
• Public Health

Science, Technology, Engineering & Mathematics—Dean David Bowman
Departments
• Biology
• Chemistry, Biochemistry and Physics
• Computer Science
• Dental Hygiene
• Engineering and Design
• Geology
• Mathematics
• Occupational Therapy
• Physical Therapy

Social & Behavioral Sciences—Dean Vickie Shields
Departments
• Communication Studies
• Geography and Anthropology
• History
• Military Science
• Political Science and International Affairs
• Psychology
• Social Work
• Sociology and Justice Studies

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<td>Sociology</td>
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<tr>
<td>Women’s and Gender Studies</td>
<td>WMST</td>
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</tbody>
</table>

General Telephone Numbers—359.6200
Cheney
• Academic Advising (Undergraduate) 359.2345
• Academic Integrity 359.2035
• Academic Success Center 359.2487
• Accounting (Professional) 828.1220
• Addiction Studies Program 359.6265
• Admissions (Undergraduate) 359.2397
• Africana Studies 359.2205
• Alumni Advancement 359.4550
• American Indian Studies Program 359.2441
• Anthropology 359.2433
• Art 359.2494
• Associated Students 359.2514
• Athletics 359.2463
• Baldy’s 359.2309
• Biology 359.2339
• Bookstore Cheney 359.2542
• Business/Public Administration Cheney 359.4245
• Campus Hairstyling 359.7840
• Campus Security (Univ. Police) 359.6300
• Career Services 359.6365
• Chemistry/Biochemistry 359.2447
• Chicano Education Program 359.2404
• College Instruction Program 359.7021
• Communication Sciences and Disorders 828.1376
• Communication Studies 359.2313
• Computer Lab PUB 359.6650
• Computer Science 359.6260
• Counseling Center 359.2366
• Criminal Justice 359.2335
• Dean of Students 359.2292
• Disability Studies (Academic) 359.4584
• Disability Support Services 359.6871
• Easterner 359.6270
• Economics 359.2281
• Education 359.2232
• EWU Extended Campus 359.7380
• Engineering & Design 359.2436
• English 359.2401
• English as a Second Language 359.6124
• English Language Institute 359.2482
• Entrepreneurial Activity (Center for) 358.2254
• Extended Education & Running Start 359.6155
• Film 359.6390
• Financial Aid and Scholarships 359.2314
• firstSTEP 359.6843
• Focus 359.2514
• Geography 359.2433
• Geology 359.2286
• Global Initiatives 359.2331
• Graduate Programs Office 359.6297
• Health Informatics Technology 828.12564
• Health, Wellness and Prevention 359.4279
• History 359.2337
• Honors Program 359.2822
• Housing/Residential Life 359.2451
• Humanities 359.2401
• Inland Northwest Center for Writers 359.4956
• Internship Office 359.4637
• Interdisciplinary Studies 359.2402
• International Field Study 359.6256
• Intramural Sports 359.7877
• Journalism 359.2401
• Learning Commons 359.4574
• Library-Cheney 359.6263
• Lost and Found (University Police) 359.6300
• Mathematics 359.6225
• McNair Scholars 359.2471
• Military Science 359.2386
• Modern Languages and Literatures 359.2481
• Music 359.2241
• Natural Science 359.6512
• New Student Programs 359.6843
• Orientation 359.6843
• Outdoor Program Office (EPIC) 359.7920
• Parking 359.6448
• Philosophy 359.7064
• Physical Education, Health and Recreation 359.2341
• Physics 359.2334
• Police 359.6300
• Political Science & International Studies 359.2362
• President 359.2371
• Psychology 359.2827
• PUB (Pence Union Building) 359.7921
• Records and Registration 359.2321
• Residential Life 359.2451
• ROTC 359.2386
• Social Work and Human Services 359.2283
• Sociology 359.2335
• Sports and Recreation Center 359.2206
• Student Activities 359.7919
• Student Affairs 359.6015
• Student Employment 359.2525
• Student Financial Services 359.6372
• Student Health 359.4279
• Study Abroad 359.6641
• Tawanka Business Office 359.6184
• Theatre 359.2459
• Transcripts 359.4871
• Undergraduate Studies Office 359.2035
• University Recreation Center 359.4026
• Veterans Resource Center 359.7040
• Women’s Studies Center 359.2847

**EWU Spokane—Student Services located at the EWU Center 828.1394**
• Accounting 828.1220
• Business/Public Administration Riverpoint 828.1260
• Communication Disorders 828.1376
• Computer Lab Riverpoint 828.1261
• Dental Hygiene 828.1285
• Health Services Administration 828.1218
• Management 828.1220
• Library-Riverpoint 828.1340
• Occupational Therapy 828.1344
• Physical Therapy 828.1354
• Planning 828.1218
• Public Administration 828.1218
ACCREDITATIONS

The university is accredited by the Northwest Commission on Colleges and Universities, the postsecondary institutional accrediting agency for a seven-state region of the country. Accreditation by the Northwest Commission qualifies Eastern Washington University for access to federal funding for teaching, research and student financial aid. Eastern is also approved by the U.S. Attorney General for non-quota immigrant students and is on the approved list of the American Association of University Women. The academic excellence of Eastern’s programs is recognized by numerous accreditations.

**Addition Studies**
The Addiction Studies program is approved by NAADAC, the Association for Addiction Professionals Approved Education Provider Program.

**Athletic Training**
The Bachelor of Science Degree in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Graduates of the program are eligible to sit for the national certification examination administered by the Board of Certification (BOC).

**Business**
The university’s undergraduate and graduate business programs are accredited by the AACSB International (Association to Advance Collegiate Schools of Business).

**Chemistry / Biochemistry**
The department’s professional bachelor of science option is approved by the American Chemical Society (ACS), and the ACS certifies graduates in this option.

**Communication Sciences and Disorders**
The university’s graduate program in speech-language pathology are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA).

**Computer Science**
The Bachelor of Science in Computer Science Degree is accredited by the Computing Accreditation Commission of ABET (http://www.abet.org).

**Dental Hygiene**
Eastern’s undergraduate program in Dental Hygiene is fully accredited by the Commission on Dental Accreditation of the American Dental Association.

**Education**
The Bachelor of Arts in Education Degree programs and the Master of Education Degree programs are approved by the State of Washington Professional Educator Standards Board.

**Electrical Engineering and Mechanical Engineering**
The Bachelor of Science in Electrical Engineering Degree and the Bachelor of Science in Mechanical Engineering Degree are accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

**Health Services Administration**
The Bachelor of Arts in Health Services Administration Degree is accredited by the Association for University Programs in Health Administration (AUPHA).

**Mechanical Engineering Technology**
The Bachelor of Science in Mechanical Engineering Technology Degree is accredited by the Engineering Technology Accreditation Commission of ABET (http://www.abet.org).

**Mental Health Counseling**
The master’s program in Counselor Education: Mental Health Counseling is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and fulfills the state of Washington requirements for mental health counselor licensure.

**Music**
The undergraduate and graduate programs in music are fully accredited by the National Association of Schools of Music (NASM).

**Nursing**
The undergraduate nursing programs taught at the WSU College of Nursing in Spokane are accredited by the Collegiate Commission on Nursing Education (CCNE) and approved by the Washington State Board of Nursing and the American Association of Colleges of Nursing.

**Occupational Therapy**
The Occupational Therapy Program at Eastern Washington University is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA). Graduates of the program will be eligible to sit for the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT).

**Physical Therapy**
The Department of Physical Therapy is fully and unconditionally accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).

**Planning**
Both the undergraduate and graduate Urban and Regional Planning programs are accredited by the Planning Accreditation Board.

**Public Administration**
The Masters of Public Administration (MPA) is fully accredited by NASPAA – Network of Schools of Public Policy, Affairs, and Administration.

**Recreation and Leisure Services**
The university’s program in Recreation and Leisure Services at the baccalaureate level is accredited by the Council on Accreditation of Parks, Recreation, Tourism, and Related Programs.

**School Counseling**
The master’s program in Counselor Education: School Counseling is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and fulfills Washington state requirements for Educational Staff Associates (ESA) school counselor licensure.

**School Psychology**
The School Psychology Program is approved by the National Association of School Psychologists and is approved by the Washington State Board of Education as an Educational Staff Associates (ESA) Certification program.

**Social Work**
The School of Social Work undergraduate and graduate degree programs are accredited by the Council on Social Work Education.
Applicant for Accreditation: The Master's in Public Health program has applied for accreditation with the Council on Education for Public Health (CEPH), and is considered an "Accreditation Applicant." This is usually a three-year process, but once the program is accredited, program's graduates for the three prior years will be covered under this accreditation.
ADMISSIONS

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Transfer Admission (p. 21)
Post-Baccalaureate Admission (p. 22)
Former Student Admission (p. 22)
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Applicants To EWU with Running Start Credits (p. 22)
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Undergraduate Admission Requirements and Criteria

All applications are completed and submitted online.

Applicants are reviewed individually.

Each category of undergraduate applicant—freshman, transfer, international, adult learners, post-baccalaureate and returning EWU students—have specific admission requirements. Review the information and definitions of each category carefully.

Accessing the Online Application (http://www.ewu.edu/apply)

Visit the online application (http://www.ewu.edu/apply) for admission.

For inquiries or to contact admissions staff, email admissions@ewu.edu or call 509.359.2397.

Official documents should be mailed to the following address:

Office of Admissions
304 Sutton Hall
Eastern Washington University
Cheney, WA 99004-2447

Application Deadlines

Term—Priority Deadline—Final Deadline
• Fall—Feb. 1 quarter and semester—varies based on enrollment
• Winter—Oct. 15 quarter and semester—Dec. 1
• Spring—Feb. 15 quarter
• Summer—Feb. 15 quarter—two weeks before the start of summer classes

Decisions on fall admission are made beginning in October, so early application is encouraged. Completed applications received after the priority dates are reviewed on a space-available basis. Applications received after August 15 for fall term or within two weeks of the start of all other terms will be deferred for consideration until the next quarter.

Note: Students who were academically dismissed from EWU must apply for reinstatement to good academic standing. Petitions for Academic Reinstatement are available from the General Undergraduate Academic Advising website (http://access.ewu.edu/academic-advising).

EWUs Right to Change Policies

Eastern Washington University reserves the right to change admissions policies and deadlines without notice.

Freshman Admission

A freshman applicant for the purposes of admission meets one of the following criteria:
• a student currently attending high school;
• a high school graduate or equivalent without post-high school transferable college credit; or
• a current high school student with Running Start credits.

All freshmen applicants must submit all of the following:
• a completed application for admission;
• self-reported CADR credits (usually via an in-progress high school transcript) or official GED test scores;
• official college transcripts of any college courses completed while in high school;
• official SAT or ACT scores submitted directly from the testing agency or recorded on an official high school transcript;
• a non-refundable $50 application fee; and
• official, final high school transcripts.

Freshmen applicants are admissible if they have a cumulative high school grade point average ≥3.3 and have completed the following College Academic Distribution Requirements (CADR).

The minimum CADR credits required for admission to EWU are:
• English—4
• Mathematics—3 (includes Algebra I, II, & Geometry or equivalents)
• Social Science—3
• Sciences—2 (1 laboratory science and 1 algebra based science)
• World Languages—2 (in a single language including ASL)
• Quantitative Reasoning—1
• Fine Arts—1 (or additional year from above CADR areas)

Students are encouraged to complete more than the minimum CADR requirements. The Washington Student Achievement Council provides guidelines of acceptable high school courses that meet these requirements as reported by each high school. Check with a high school counselor or an admissions representative if you have additional questions.

Transfer Admission

A transfer student for the purposes of admission meets one of the following criteria:
• graduated from high school and is currently enrolled in a two-year or four-year institution with course work transferable to EWU;
• earned transferable college-level credit after high school graduation.

All transfer applicants are required to submit all of the following:
• a completed application for admission;
• official high school transcripts or official GED test scores (if transferring with less than 40 quarter credits);
• official transcripts from every two-year or four-year institution attended;
• official SAT or ACT scores (if transferring with less than 40 quarter credits); and
• a non-refundable $50 application fee.

At the time of application to EWU, transfer applicants are evaluated for admission in one of two ways:

• transfer applicants with less than 40 quarter hours of transferable college credit at the time of entry must:
  • satisfy the aforementioned freshmen admission criteria; and
  • have a cumulative GPA ≥2.0 in all transferable college-level courses.
• transfer applicants with 40 or more quarter hours of transferable college credit at the time of entry must:
  • show a minimum cumulative GPA >2.5 in all transferable college-level course work; or
  • show a minimum cumulative GPA >2.0 in all transferable college-level course work and completion of college-level English and intermediate algebra.

Note: Acceptance into many majors requires a GPA >2.0, prerequisite courses, service experiences and/or a separate application. Contact the appropriate department for details.

Post-Baccalaureate Admission
A post-baccalaureate student is defined for purposes of admission as any applicant with an undergraduate degree from a regionally accredited institution who is seeking course work toward a second bachelor’s degree, teacher certification or other course work that is not part of any EWU graduate program. All post-baccalaureate applicants must submit official university or college transcripts documenting their undergraduate degrees.

Note: Acceptance into many majors requires a GPA >2.0, prerequisite courses, service experiences and/or a separate application. Contact the appropriate department for details.

Former Student Admission
A former student is defined for purposes of admission as any applicant who was previously admitted and enrolled at EWU and has been absent from the university for more than four quarters.

Former students are required to submit:

• a completed application for admission;
• official transcripts from any two-year or four-year institutions attended since the last enrollment at EWU;
• a non-refundable $50 application fee.

Adult Student Admission
An adult student for purposes of admission is defined as an applicant 25 years of age or older who meets neither the high school admission criteria nor the transfer admission criteria for students with fewer than 40 credits.

Adult applicants may be offered regular admission if they meet at least two of the following requirements:

• submit satisfactory scores on the SAT, ACT or other university-administered tests;
• submit a transcript showing the achievement of a high school GPA ≥2.5 or a passing score on the General Educational Diploma (GED);
• submit an essay demonstrating entry-level critical thinking and communication skills;
• present evidence of success outside the classroom and strong motivation to succeed at the university.

Exceptions To Admission Criteria
EWU can admit up to 15 percent of all incoming freshmen who have not met CADRs or who have earned a GPA <3.3. Students who are admitted without completing the high school core courses may be required to complete specific courses for college preparation or to satisfy EWU graduation requirements. For example, a student deficient in high school foreign language may be required to complete foreign language at the 103 level at EWU. Some students may be admitted with the condition that they complete a core course during the quarter prior to entering EWU.

General Education Diploma
EWU will accept the General Education Diploma (GED) in lieu of high school graduation. Passing GED scores vary based on the version of the test a student completed.

Home School Students
Home school applicants must present evidence of the completion of the CADRs or their equivalents or a GED as proof of high school completion.

Student Athletes
Student athletes must meet the NCAA (http://www.ncaa.org) Clearinghouse requirements to be athletically eligible. For additional information, call 877.262.1492.

Applicants To EWU with Running Start Credits
Applicants with Running Start credits who are still in high school must meet all freshmen admission criteria as defined above and have a cumulative college GPA of ≥2.0.

Applicants to EWU who have enrolled in another college or university after high school graduation must meet all transfer admission criteria. In general, college credits earned by students through Running Start in the state of Washington are treated as transfer credits, as they are recorded on the official transcript of the college where the work was completed.

International Student Admission
An international student is defined as a student who is in the U.S. or planning to enter the U.S. for academic purposes and holds F-1 or J-1 immigration status.

International applicants will find helpful information about admissions and other student support services here (http://www.ewu.edu/international). The International Admissions Team will assist prospective students in determining the appropriate academic entry level based on their application materials and educational goals.

International students are required to submit official transcripts from all colleges and universities (both foreign and within the U.S.). Applicants whose foreign transcripts cannot be verified must submit documents to World Education Services or another evaluation service member of NACES for evaluation and verification. Applicants must submit evidence of financial support or scholarship prior to receiving a visa eligibility document (Form I-20) from Eastern Washington University.

Required Application Materials for International Students:

• a completed application for admission;
• a US $50 application fee;
EWU's general education core requirements and university competencies from the sending institution have satisfied the lower division general education core requirements.

Graduates of these colleges who complete a direct-transfer associate degree are admitted to EWU with junior standing and have satisfied the lower division general education core requirements.

Students transferring to Eastern Washington University from a community college in the state of Washington, Oregon, and select colleges in other states. EWU participates in direct transfer agreements with community colleges in the state of Washington.

Students transferring to Eastern Washington University from a Washington public baccalaureate institution who have official documentation certifying completion of all the lower division general education requirements from the sending institution have satisfied EWU's general education core requirements and university competencies.

International students interested in transferring credits from a foreign country are required to submit an evaluated transcript from an accredited evaluation agency and provide individual course descriptions in English.

International students interested in transferring credits from a foreign country should submit an evaluated transcript from an evaluation agency and provide individual course descriptions in English of all courses requested for transfer to EWU. Visit NACES (http://www.naces.org) for a list of accredited agencies.

An application for admission will be considered complete only when all of the required documents are received. Due to the time required to secure a student visa, students applying from outside the U.S. are encouraged to apply as early as possible. Submitting fraudulent documents will result in automatic denial of application and/or dismissal from Eastern Washington University.

English Language Requirements for Admission
International students who have English as their second language and who have not completed a transferable English composition course (with a grade minimum ≥2.0) must submit one of the following official test scores:

- Test of English as a Foreign Language (TOEFL) score of at least 525 paper based or 71 iBT; or
- International English Language Testing System (IELTS) score of at least 6.0.

Applicants who do not meet these English language admissions requirements may be admitted to the university with the condition that they successfully complete a program of study with EWU's English Language Institute (ELI). Students who wish to apply for conditional admission should submit an ELI application (http://www.eli.ewu.edu) in addition to the admission requirements stated above.

Running Start Admission
EWU is recognized as a Running Start institution by the Washington Department of Education. Eligible high school students may enroll in courses at EWU on a full- or part-time basis to meet high school requirements and earn college credit. Students must meet the minimum admission criteria, which may include SAT or ACT scores. Students interested in enrolling in Running Start through EWU should contact their high school guidance office or the Running Start Coordinator at Eastern Washington University at 509.359.6155.

Transfer Agreements
EWU participates in direct transfer agreements with community colleges in the state of Washington, Oregon, and select colleges in other states. Graduates of these colleges who complete a direct-transfer associate degree are admitted to EWU with junior standing and have satisfied the lower division general education core requirements.

Intercollegiate (ICAO Policy)
Students transferring to Eastern Washington University from a Washington public baccalaureate institution who have official documentation certifying completion of all the lower division general education requirements from the sending institution have satisfied EWU's general education core requirements and university competencies.

and proficiencies. These are described in the sections titled "Core Requirements and University Competencies and Proficiencies" and are shown in the shaded portion of the diagram labeled "The Undergraduate Degree."

Transfer Credit and Evaluation of Other Forms of College Credit
Transfer credit is generally awarded for courses completed at regionally accredited two-year or four-year institutions. When determining transferable credit, EWU adheres to the standards and practices of the American Association of Collegiate Registrars and Admissions Officers. Questions about the transferability of credits completed at institutions that are not regionally accredited should be directed to the Office of Admissions.

Credit Totals
Eastern Washington University will accept in transfer toward a bachelor's degree no more than 90 lower-division credits. After a student has been admitted to a university major, additional lower-division credit may be allowed when the additional credit will advance the student toward degree completion and the smallest unit responsible for the student’s degree approves a petition filed by the student to allow more than 90 lower-division credits.

No more than 135 credits (lower- or upper-division) may be accepted in transfer for a bachelor’s degree. Transfer credit shall be accepted for upper-division credit only when earned at an accredited four-year, degree-granting institution as upper-division credit.

Advanced Placement
Credit for minimum scores on Advanced Placement examinations given by the College Board is awarded upon receipt of official score reports. Official scores should be submitted to the Office of Admissions. See Sources of Credit—AP for current score requirements and corresponding credits awarded.

College in the High School Credits
Applicants with credits earned through College in the High School programs must meet freshmen admission criteria. College in the High School courses will be accepted as transferable college credit if they are from a regionally accredited college or university and are consistent with EWU's general transfer credit policy.

College-Level Examination Program (CLEP)
Eastern Washington University will award credit for CLEP tests. Acceptability of credits toward major requirements or general education core requirements is determined by the appropriate department. See Sources of Credit—AP for current score requirements and corresponding credits awarded.

Experiential Credit
For information on evaluation of experience for credit, see Interdisciplinary Studies or visit 361 Senior Hall, EWU, Cheney, WA 99004-2442; phone 509.359.2402.

Foreign Educational Credentials
Students interested in information about credit awarded for selected foreign educational credentials should contact the Office of Admissions.

International Transfer Students
International students interested in transferring credits from a foreign country should submit an evaluated transcript from an evaluation agency and provide individual course descriptions in English of all courses student plans to transfer to EWU. A list of approved evaluation agencies
appears at National Association of Credential Evaluation Services (http://www.naces.org).

**International Baccalaureate**

Eastern Washington University will award credit for Higher Level International Baccalaureate exam results of 5 or better. Acceptability of credits toward major requirements or General Education Core Requirements (GECRs) is determined by the appropriate department. See Sources of Credit—AP for current score requirements and corresponding credits awarded.

**Military Credits**

Students may earn up to 45 quarter hours of credit for military educational experiences. This includes credits awarded for CLEP/DANTES tests. Note: Any student pursuing a bachelor of arts in Interdisciplinary Studies (Prior Learning Option) will not be awarded more than 90 quarter hours in credit from a combination of military experience and prior learning block credit. See Interdisciplinary Studies on page 20.

**Veterans**

College credit may be awarded for military service time. Veterans are encouraged to submit a photocopy or true copy of military separation, DD-214, or an equivalent document for credit evaluation.

**State Authorization**

EWU currently offers educational opportunities to students in multiple state jurisdictions through distance education. Due to a state authorization initiative throughout the nation, all universities offering educational activities, including but not limited to online learning, correspondence, internships, practicums and field placements, outside of their home state must be authorized by each state in which they offer courses. EWU is monitoring developments in state laws in every state. For the most up to date information on EWU's state authorization (http://www.ewu.edu/academics/stateauthorization) progress please check our webpage often.

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**Graduate Program** (http://www.ewu.edu/grad) **Admission**

206 Showalter Hall
509.359.6297
email (gradprograms@ewu.edu)

The Graduate Programs office coordinates admission for all of Eastern’s graduate programs and provides a wide range of assistance to prospective and current students as well as to faculty and staff at the university. Admission to Graduate Programs requires at minimum—completion of a baccalaureate degree. For more information about the academic and student services provided by the office, including admissions and policies, call or email the Graduate Programs office or visit the website (http://www.ewu.edu/grad).

**Application Process**

All programs except Interdisciplinary Studies have an online application available via EagleNET (http://web.ewu.edu/eaglenet). Admission requirements for individual programs vary and usually include supplemental materials beyond the general application to Graduate Programs. Any supplemental materials required by a program should be sent directly to that department. Use the summary guidelines and the departmental listing on the Web or in the catalog immediately following this section to identify specific requirements. To be considered for admission, applicants must submit all materials by the specific deadlines established by each program. Applicants to more than one program (this includes dual-degree programs) must submit a complete, separate application for each program.

**Application Requirements and Categories**

**All Applicants**

Apply online and submit the required application fee. Applicants must pay the fee for each graduate program application, except for dual-degree program applicants, who pay only one fee for both applications.

**Standardized Test Scores**, gre/gmat: Submit official score reports from the Graduate Record Examination General Test (GRE), if required by the department, or score reports from the Graduate Management Admission Test (gmat) for MBA applicants. Official scores must be sent directly by the Educational Testing Service to Eastern (school code 4301). Computer-based testing is available in many areas and is offered regularly throughout the year. Call 1.800.GRE.CALL or refer to GRE (http://www.ets.org/gre) or G (http://www.gmat.org)MAT for more information.

**Transcripts:** Submit one official copy of transcripts from all colleges and universities previously attended. Students who received undergraduate degrees from Eastern do not need to request that those transcripts be sent to the Graduate Programs office.

**International Applicants**

In addition to the online application for admission, international applicants are required to submit a course-by-course credential evaluation through World Education Services (WES) or another credential evaluation service recognized by the National Association of Credential Evaluation Services (http://www.naces.org) (NACES). The wes application and forms (http://www.wes.org). Graduates of accredited U.S. universities are not required to submit a credential evaluation. One copy of official university transcripts or postsecondary academic records must also be sent directly to Graduate Programs, 206 Showalter Hall, Cheney, WA 99004-2444. International applicants who have already had a credential evaluation completed by wes or another credential service need to have an official copy of that evaluation sent to Eastern, along with a copy of their university transcripts.

**Language Proficiency**

All students from countries where English is not the native language must provide evidence of adequate proficiency in the English language before being admitted to graduate study. All applicants must meet all other admission requirements in addition to the English language proficiency requirement in order to be admitted. The language requirement may be satisfied by submitting an official score report showing any of the following scores on the Test of English as a Foreign Language (TOEFL), paper-based test (PBT) or Internet-based test (iBT); the Pearson Test of English, Academic (PTE-A); or the International English Language Testing System (IELTS).

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
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<tbody>
<tr>
<td>TOEFL PBT</td>
<td>580 or higher</td>
</tr>
<tr>
<td>TOEFL iBT</td>
<td>92 or higher</td>
</tr>
<tr>
<td>PTE-A</td>
<td>63 or higher</td>
</tr>
<tr>
<td>IELTS</td>
<td>7.0 or higher</td>
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</tbody>
</table>
Otherwise admissible applicants who submit an official score report showing any of the following English language test scores may be admitted conditionally, upon recommendation of the academic program. In such cases, registration for classes is conditional upon having a program of English language study approved by the director of the Teaching English as a Second Language (TESL) program. A student with conditional admission may be granted full admission upon presentation of a new official score report showing any of the test scores identified above as satisfying the English language proficiency requirement or upon recommendation of the director of the TESL program.

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<th>Test</th>
<th>Score</th>
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<tbody>
<tr>
<td>TOEFL PBT</td>
<td>550-579</td>
</tr>
<tr>
<td>TOEFL iBT</td>
<td>79-91</td>
</tr>
<tr>
<td>PTE-A</td>
<td>53-62</td>
</tr>
<tr>
<td>IELTS</td>
<td>6.5</td>
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</table>

Applicants who submit an official score report showing any of the following English language test scores may be admitted to the University as post-baccalaureate students and may take up to 12 pre-admission credits to be counted toward a graduate degree after graduate admission and program approval. These applicants may be granted full admission upon presentation of a new official score report showing any of the test scores identified in the first table above as satisfying the English language proficiency requirement or may be granted conditional admission for new scores in the conditional range in the second table above.

<table>
<thead>
<tr>
<th>Test</th>
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<tbody>
<tr>
<td>TOEFL PBT</td>
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<tr>
<td>TOEFL iBT</td>
<td>79-91</td>
</tr>
<tr>
<td>PTE-A</td>
<td>53-62</td>
</tr>
<tr>
<td>IELTS</td>
<td>6.0</td>
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</table>

Please note: international applicants who have earned an undergraduate degree from an accredited post-secondary institution in the U.S. are not required to submit an English language test score as part of their application.

Alternative to submitting test scores to meet the English language proficiency admission requirement: Otherwise admissible applicants may, with the written approval of the academic program, be admitted upon successful completion of a prescribed program of appropriate content course work and English Language Institute (ELI) course work. This course work will be agreed upon in advance by both the program and ELI. Successful completion is defined by the academic program for the content courses and by ELI in the advanced language level by achieving linguistic proficiency with a good rating on the ELI scale of fair/good/excellent. Up to 12 credits of content course work completed before admission may be applied to the appropriate graduate program after admission with the program’s written approval.

Note: this policy is not to be construed as replacing evaluation by the director of the TESL program for applicants with an English language test score in the conditional range in the second table above, nor should it be construed as a policy on conditional admission to graduate studies.

Graduate Admission Requirements and Exceptions to Minimum Requirements

A baccalaureate degree from an appropriately accredited college or university is required for admission to a graduate program. Upon receipt of a complete application, eligibility for graduate admission is determined by evidence of scholarly ability as indicated by a minimum GPA ≥3.0 in the last 90 quarter or 60 semester-graded hours. Applicants with an earned graduate or professional degree from an appropriately accredited institution meet the minimum GPA admission requirements.

Admission to a graduate program is granted only after recommendation by the major department and the approval of the vice provost for Academic Planning, Graduate Programs, Grants and International Research.

Exceptions to GPA Requirements for Graduate Admission

Upon written recommendation by the program director, the vice provost for Academic Planning, Graduate Programs, Grants and Institutional Research may approve the admission of a limited number of students who do not meet the GPA minimum, based upon considerations which include GRE or other test scores, performance in relevant graduate courses, and faculty evaluations.

Professional Experience and Graduate Admissions

Applicants with at least 10 years of increasingly responsible professional experience in the field for which they are applying may be considered for regular admission to Graduate Programs. These applicants must have a baccalaureate degree from an accredited university, follow the general application procedures outlined above and meet the following requirements:

- submit a transcript showing a GPA ≥3.0 for the last 90 quarter- or 60 semester-graded hours; or
- submit satisfactory scores on the GRE, GMAT or other approved test; or
- write an essay demonstrating critical thinking skills; or
- write a statement of intent demonstrating a level of knowledge and intellectual maturity appropriate to the proposed field of graduate study; or
- present evidence of professional success in a field relevant to the proposed area of study.

Applicants for admission under the professional experience provision must work closely with the program advisor or director to ensure that all required materials are received and reviewed. Any recommendation for admission under this provision must come from the academic department or program to the Graduate Programs office. Admission is granted only with the approval of the vice provost for Academic Planning, Graduate Programs, Grants and Institutional Research. Call the Graduate Programs office if there are further questions.

Grading System, Policies and Appeals

General information is provided in the policy section at the back of the catalog, including the full policy on grade appeals. Also see the information following Graduate Programs Academic Policies and Degree Requirements section.

Graduate Degree Requirements

Each academic program specifies the particular requirements for the degree in the program listings in the center of this catalog. Graduate degree specializations must be built upon adequate undergraduate preparation. The minimum credits required to complete a graduate degree at Eastern are as follows:
### Degree Credits

<table>
<thead>
<tr>
<th>Degree</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Science</td>
<td>48</td>
</tr>
<tr>
<td>Master of Education</td>
<td>48</td>
</tr>
<tr>
<td>Master of Business Administration</td>
<td>48-50</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>48</td>
</tr>
<tr>
<td>Master of Public Administration</td>
<td>60</td>
</tr>
<tr>
<td>Advanced Standing program</td>
<td>46</td>
</tr>
<tr>
<td>Master of Fine Arts</td>
<td>72</td>
</tr>
<tr>
<td>Master of Urban and Regional Planning</td>
<td>72</td>
</tr>
<tr>
<td>Master of Social Work</td>
<td>90</td>
</tr>
<tr>
<td>Advanced Standing program</td>
<td>51</td>
</tr>
<tr>
<td>Master of Occupational Therapy</td>
<td>131</td>
</tr>
<tr>
<td>Advanced Standing program</td>
<td>73</td>
</tr>
<tr>
<td>Educational Specialist</td>
<td>107</td>
</tr>
<tr>
<td>Doctor of Physical Therapy</td>
<td>161</td>
</tr>
</tbody>
</table>

### Minimum Dual-Degree Requirements

<table>
<thead>
<tr>
<th>Degree</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA/MBA</td>
<td>82</td>
</tr>
<tr>
<td>MPA/MSW Advanced Standing</td>
<td>118-122</td>
</tr>
<tr>
<td>MPA/MSW Advanced Standing</td>
<td>83</td>
</tr>
<tr>
<td>MSW/JD (with Gonzaga University)(^1)</td>
<td>90</td>
</tr>
<tr>
<td>Advanced Standing MSW/JD (with Gonzaga University)(^2)</td>
<td>51</td>
</tr>
</tbody>
</table>

\(^1\) 78 credits at EWU with 12 transfer credits from Gonzaga. Dual-degree students in this program must satisfy all Gonzaga University law school juris doctorate requirements.

\(^2\) 39 credits at EWU with 12 transfer credits from Gonzaga. Dual-degree students in this program must satisfy all Gonzaga University law school juris doctorate requirements.

Complete requirements for all graduate students are established and approved by the Graduate Affairs Council. A copy of the current policy manual (http://www.ewu.edu/about/administration/president/policies).
**GRADUATE STUDIES**

**Graduate Programs** ([http://www.ewu.edu/grad](http://www.ewu.edu/grad))

206 Showalter Hall  
509.359.6297  
email (gradprograms@ewu.edu)

The Graduate Programs office coordinates admission for all of Eastern’s graduate programs and provides a wide range of assistance to prospective and current students as well as to faculty and staff at the university.

**Graduate Programs Academic Policies**

For a summary of student responsibilities relative to these policies, see the Policies section at the end of this catalog.

**Academic Standards**

- At least 75 percent of the total credits for a graduate degree must be at the 500 level or above. **Note:** interdisciplinary degrees (as described separately in this catalog) may include no more than 12 quarter credits of undergraduate course work.
- Distance-delivered courses numbered 400 or above, offered by accredited institutions as graded courses and part of a graduate program of study may be included in a graduate degree program at Eastern at the discretion of the program/department.
- No 300-level courses are allowed in a graduate degree program without prior permission from the Director of Graduate Programs. Only one approved 300-level course of up to five quarter credits is allowed in any graduate program.
- No program requirements can be satisfied with a course grade <2.0.
- Only two courses in a student’s degree program may be <2.5; repeats do not change this rule.
- Pass/No Credit courses may count in a graduate degree program, but a student must complete 75 percent of the quarter credits required for the program as graded work. Upper-division undergraduate courses (300–400) with pass/no credit grades cannot be included as part of the graduate program.

1. Pass/No Credit grades are utilized only in designated graduate-level courses. (Graduate courses may not be taken Pass/No Credit unless the course has been so designated by departments.)
2. Students with more than two no-credit (NC) grades in their program will have their record reviewed by the program advisor with possible termination of the program as a consequence.
- Proof of competency in research is required of all graduate degree candidates.
- Senior students with exceptional ability and appropriate background may enroll in 500-level courses only with prior written permission of the Director of Graduate Programs.
- Three-fourths of the minimum credits required for the specific degree program must be earned in approved courses offered by EWU. The remaining credits may consist of approved credits from other accredited institutions.

**Appeals**

Occasionally, a student may wish to appeal one of Eastern’s graduate policies. Student appeals of graduate policies and procedures should be addressed to the Director of Graduate Programs. These appeals should be made in writing, initiated by the student, and endorsed by the appropriate graduate program advisor or director. The appeal document must contain adequate justification demonstrating that the student possesses sufficient outstanding qualities to balance identified weaknesses.

Note: appeals of the policy on previous graduate credit found on page 37 are heard by an Academic Appeals Board.

**Course Level Policies**

All departments may offer these types of courses, but not all may be listed in this catalog; check with individual department offices for the most current information on course availability.

<table>
<thead>
<tr>
<th>Upper Division</th>
<th>Graduate Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-499 primarily for seniors; graduate students may count a limited number of credits from graded courses, only with program approval</td>
<td>500-599 graduate level; senior undergraduates may enroll only with permission of both department chair and Director of Graduate Programs 600-699 graduate level only 700-799 doctoral level only</td>
</tr>
</tbody>
</table>

At all levels, course numbers ending in 95 through 99 indicate special courses, with the particular subject matter varying from quarter to quarter:

- 95: internships  
- 96: experimental  
- 97: workshops, short courses, conferences (Only one workshop course of up to 3 credits may be used to fulfill graduate degree requirements.)  
- 98: seminars  
- 99: independent and directed study

**Course Loads**

The minimum full-time enrollment for graduate students is 10 quarter credits for students on a quarter calendar (QC) and 10 semester credits for students on a semester calendar (SC). A standard study load normally involves around 12 quarter credits for full-time QC students or 18 quarter credits for full-time SC students. The course load of graduate students may not in any term exceed 18 quarter credits for QC students or 27 semester credits for SC students without the approval of the student’s advisor and the appropriate department chair or designee. Students receiving a graduate service appointment must also have the approval of the Director of Graduate Programs to enroll in overload credits. Call 509.359.6297 with any questions.

**Course Repeat**

Courses may be repeated for graduate credit. However, as stated above under Academic Standards, only two courses in a student’s degree program may be <2.5; repeats do not change this rule. Also see the probation policy below and the general information on the grading system in the policy section in the back of the catalog.
Degree Completion and Use of University Resources
After being admitted to a graduate program a student has six calendar years in which to complete a graduate degree program, beginning with the quarter the student is admitted, subject to the following exceptions:

- This policy may not be construed to change the six-year limit between commencement of study toward the degree and completion of the degree program. (The six-year limit begins with the date of the first course used toward degree requirements, including any pre-admission credits.)
- Admitted students who fail to complete the degree within the six-year period will be dropped from the program and must re-apply for admission to the degree program with evaluation of all credits taken to date and pay the application fee.
- Students who are using university resources during the six-year period, including faculty consultation, laboratories, library resources, scheduling and completing final examinations, must register for a minimum of 2 credits. In the quarter of defense, the student must be enrolled for a minimum of 2 credits. (Summer session only permits 1 credit registration.)

Enrollment Policies for Graduate Students
Graduate students may register only after being fully admitted to EWU. Any student who attends classes but fails to register for those classes through the Records and Registration Office will not receive credit for those classes. Students who register after the registration period will be assessed a late registration fee per course. The instructor’s permission is required for late registration. An advisor’s signature is required prior to registration for all new entering students, returning students on academic dismissal, those on probation and any student with an overload of credits.

Failure to attend the first class meeting may result in loss of registration in that course section. Failure to complete all prerequisite requirements prior to registering may result in loss of registration.

Please refer to the quarterly announcement at www.ewu.edu/registrar (http://www.ewu.edu/registrar) for further information on registration procedures such as how to drop, add and withdraw.

Graduate Degree Candidacy
Advancement to graduate degree candidacy means that the department is encouraging the student to complete his or her degree. The student’s program is planned at this time, and the student is assured protection against subsequent program changes.

Advancement to Graduate Degree Candidacy requires the following steps:

- completion of at least 15 graded credits in a degree program;
- maintenance of at least a cumulative GPA ≥ 3.0 in all courses since admission to Graduate Programs;
- submission of the application for degree candidacy form to the Graduate Programs office, specifying a degree study program approved by the major department. At the student’s option, the program may be based on either current catalog requirements or the catalog in effect at the time of admission. The form must be submitted before the student has completed one-half the minimum credits unless program requirements allow submission after the midpoint of the student’s program. All applications for graduate degree candidacy must be submitted no later than the second Friday of the term before anticipated graduation unless special permission is granted by the Director of Graduate Programs;
- completion of any specific departmental requirements;
- approval of the Director of Graduate Programs.

Graduate Degree Committees and Final Comprehensive Exams
After a student has advanced to degree candidacy, a committee is appointed to arrange, conduct and appraise the comprehensive examination. Satisfactory completion of the comprehensive exam is required to graduate.

Graduate degree committees are normally comprised of three members, one acting as the chair. The chair of the graduate committee is a faculty member from the student’s specialization. Another member is chosen to represent the broader academic aspects of the candidate’s program. The third member is a representative of the Graduate Affairs Council, which governs graduate policies and programs. The council representative is selected from a department outside the student’s primary academic area and is appointed to the committee by the Director of Graduate Programs. (See the approved departmental comprehensive exams third member policy that follows this section of the catalog.) When necessary to represent all the areas of a student’s preparation, the Director of Graduate Programs may authorize additional members.

After the committee is confirmed, the candidate and faculty members are officially notified of the committee membership by the Graduate Programs office. The candidate must confer with his or her chair regarding the date of the comprehensive examination. It may be scheduled any time after submission to the Graduate Programs office of the terminal research approval form. This form is signed by the student’s chair and internal member to indicate their approval for the examination to be held. The Graduate Programs office must be notified of the scheduled examination at least 10 working days prior to the examination date. Except in the case of a written examination, all comprehensive exams are open to the public and must be announced to the student’s academic unit(s) at least one week prior to the exam.

The examination is conducted by the chair of the committee, and questions are based upon the candidate’s research and/or areas of study. The examination is approximately two hours. The committee members then determine, by majority vote, whether the candidate is successful, unsuccessful or not yet qualified. The official report of the committee’s decision must be returned to the Graduate Programs office for inclusion in the student’s permanent records and to use for degree checkout.

Note: A comprehensive examination cannot be scheduled for any student who has an × grade in any course in his/her degree program, current course work excepted. Student and faculty signatures on the terminal research approval form are verification that there are no × grades. Students who successfully complete their comprehensive examinations must meet any outstanding degree requirements within one quarter of their exams or be assessed a late completion fee equal to the cost of one-half of one resident graduate credit for purposes of degree checkout and degree posting. Post-examination internships required for degree completion are excluded. If the student does not complete by the end of one term, the late completion fee will be assessed for each term the course work is incomplete.

Graduation Application
Application for completion of the graduate degree must be filed with the Graduate Programs office no later than January 15 for spring quarter/semester; April 15 for fall and summer quarter/semester; and Oct 15 for winter quarter. Early application is encouraged. A diploma fee is required. Fees change annually; check with the Graduate Programs office. Late applications are subject to a fee. Applications received after the deadline
Probation Policy

- Students must maintain a GPA ≥3.0 in all courses taken since admission to graduate studies at EWU.
- Students are notified by letter if they have fallen below the 3.0 minimum.
- One term is allowed to restore the cumulative GPA to ≥3.0.
- Faculty of the department offering the degree may extend the probationary period by one term, when warranted by special circumstances.
- Students on probation may not be advanced to candidacy or schedule their comprehensive exams.

Graduation Grade Point Average

The graduation GPA includes credits and grade points earned at Eastern and transfer credits and grade points accepted by Eastern. This grade point is used for determining graduation eligibility. The transfer GPA does not appear on an EWU transcript. University academic honors (cum laude, magna cum laude, summa cum laude) are not awarded to graduate students based on GPA.

Multiple Graduate Degrees and Programs

Students who have finished one graduate degree may be awarded another graduate degree when they have finished the requirements for the second degree as set forth in the graduate catalog. Students may also pursue and be enrolled in two programs simultaneously.

Students must meet all the requirements of the second degree, including course work, tests, thesis, foreign language, experience, age of credits, departmental recommendations and other requirements as specified. Students may apply a maximum of 12 department/program credits from one graduate degree or degree program to a second or additional graduate degree. (This does not apply to dual-degree programs.)

Maximum Attempted Credits

Graduate students are expected to make efficient progress toward their degree. Those found to have attempted credits on their record at or above 150% of the minimum number of credits required for their program, excluding independent study, thesis or research project courses, will be prevented from registering until they have met with their academic advisor, established a revised plan for program completion and specified a new graduation term. This plan must be submitted with the written support of the student’s academic advisor and approved by the Director of Graduate Programs in order for the student to register.

Previous Graduate Credit

Students may include in a graduate degree program a maximum of 12 quarter credits or nine semester credits completed before admission to graduate studies. These credits must be from an accredited university, approved by the department for inclusion in a degree program, no more than six years old at the time of program completion and not part of an undergraduate degree. Any exception to this policy must be approved by the Academic Appeals Board. Appeals are made in writing by the student and must be accompanied by the written support of a program advisor or director. These appeals are submitted to the board through the Graduate Programs office.

Probation Policy

- Students on probation may not be advanced to candidacy or schedule their comprehensive exams.
- Students unable to restore their cumulative GPA to ≥3.0 in the additional quarter of probation shall be terminated from the program.
- Individual departments/programs may have requirements that are more restrictive. Such requirements supersede those stated here.

Students who have been academically dismissed from a graduate program may reapply for admission. In addition to the application for readmission to graduate studies and meeting all admission requirements specified by the program, applicants who have been dismissed must also submit a written petition to the program stating their readiness to pursue the degree and addressing the circumstances that led to dismissal. Applicants who are then readmitted will be allowed to register for one term only. At the end of the initial term, continuation is contingent upon recommendation from the program and the approval of the Director of Graduate Programs. Students who have been readmitted will have up to two terms to return to good academic standing with a cumulative graduate GPA ≥3.0. Extensions of probationary status may be approved on the written recommendation of the program and with the approval of the Director of Graduate Programs. Students who are not recommended for continuation are not eligible for one year to reapply for admission to graduate studies.

Residency Requirement (at EWU)

Three-fourths of the minimum credits required for the specific degree program must be earned in approved courses offered by EWU. The remaining credits may consist of approved credits from other accredited institutions. (For information about establishing residency in Washington for tuition purposes, see the policy section of this catalog for state of Washington residency.)

Thesis, Research Report or other Terminal Document Requirements

Completion of a thesis or research report is required by most graduate programs. Research reports are submitted to the department in whatever form, style and number the department requires. Instructions on form and style requirements for a master's thesis are available from the Graduate Programs office and from our website at www.ewu.edu/grad (http://www.ewu.edu/grad).

When a student is submitting a thesis, research report or other terminal document, either the document or an abstract must be provided to committee members at least two weeks in advance of the final comprehensive examination. Any required changes are to be completed for final approval by the committee within 10 working days of the examination, or the end of the term, whichever comes first.

Four approved copies of the thesis must be presented to the Graduate Programs office within 10 working days of the oral examination, or by the end of the term, whichever comes first. By that time, a $96.50 binding fee must be paid. Thesis students must also submit a digital copy (gradthesis@ewu.edu) of their thesis in both MS Word format and PDF format (Computer Science students may use LaTex). In addition, thesis students must submit a signed copy of the Graduate Thesis Submission (http://www.ewu.edu/grad) Form along with their thesis copies.

Note: The university has policies and procedures in place to ensure that individuals conducting research, including graduate students, comply with applicable federal and state regulations governing the use of human subjects, the care and use of animals, significant financial interest disclosure, scientific misconduct, intellectual property and copyrights. If the student’s research is affected by any of the above, he or she may be required to obtain university approval prior to initiating the research. Further information and application materials are available from the
Office of Grant and Research Development, 210 Showalter Hall. Also see the Regulations for Research section of this catalog.

**Y grades for Thesis, Research report and other courses requiring more than a single term to complete**

Students are expected to enroll for an appropriate number of research credits each term they use university resources such as faculty time, laboratories and the library. The Y grade may be used to defer assigning of a grade until the project is completed. The Y grade is not to be used in lieu of an incomplete. A specified maximum number of Y-graded credits are allowed by each program.

**Y Grade Maximums**

<table>
<thead>
<tr>
<th>Field</th>
<th>Courses</th>
<th>Maximum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>ART 600, ART 601, ART 696</td>
<td>15 credits</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>30 credits</td>
</tr>
<tr>
<td>Business</td>
<td>COIN 600, COIN 601, COIN 696</td>
<td>9 credits, 6 six credits, 15 credits</td>
</tr>
<tr>
<td>Communication Disorders</td>
<td>CMSD 600S</td>
<td>10 credits</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>CMST 600, CMST 601</td>
<td>6 credits</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CSCD 600, CSCD 601</td>
<td>6 credits</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>CRWR 600</td>
<td>12 credits</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>DNHY 600S</td>
<td>25 credits</td>
</tr>
<tr>
<td>Education</td>
<td>EDUC 563, EDUC 588, EDUC 600, EDUC 601, EDUC 695</td>
<td>4 credits, 6 credits, 25 credits</td>
</tr>
</tbody>
</table>

**Consequences/Information**

- Supports timely progress to degree completion; protects students from degree requirement changes; begins IRB review, if needed. Approved candidacy applications acknowledged by letter of advancement from the Director of Graduate Programs.
- Inaccurate or incomplete candidacy application delays advancement. Late submission requires a written appeal to the Director of Graduate Programs and possible delay in graduation. Lack of IRB can invalidate research.

**Graduate Student Summary Guide to Policies and Procedures**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Action</th>
<th>Deadline</th>
<th>Explanation</th>
<th>Consequences/Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply for candidacy and select</td>
<td>Student approaches advisor to formalize graduate program plan, discuss</td>
<td>Jan 15 for spring quarter and</td>
<td>Supports timely progress to degree completion; protects students from</td>
<td>Inaccurate or incomplete candidacy application delays advancement. Late submission requires a</td>
</tr>
<tr>
<td>graduate faculty committee members.</td>
<td>second committee member, and determine if Human Subject (IRB) must be</td>
<td>semester; April 15 for fall and</td>
<td>degree requirement changes; begins IRB review, if needed. Approved candidacy</td>
<td>written appeal to the Director of Graduate Programs and possible delay in graduation.</td>
</tr>
<tr>
<td></td>
<td>filed. Program approval for candidacy indicated by student and two</td>
<td>summer quarter and semester;</td>
<td>applications acknowledged by letter of advancement from the Director of</td>
<td>Lack of IRB can invalidate research.</td>
</tr>
<tr>
<td></td>
<td>graduate program faculty signatures on candidacy form. Form then</td>
<td>Oct 15 for winter quarter</td>
<td>Graduate Programs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>submitted to Graduate Programs office for review.</td>
<td>(earlier is recommended.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit Graduation Application and</td>
<td>Apply to graduate online through EagleNET. Log in to EagleNET, click</td>
<td>Term of program completion.</td>
<td>Meets state requirement of registration for students using university</td>
<td>Only currently registered students are eligible to complete a graduate program.</td>
</tr>
<tr>
<td>fee.</td>
<td>on the Student tab, and then click on Student Records.</td>
<td></td>
<td>resources.</td>
<td></td>
</tr>
<tr>
<td>Register in final term of program</td>
<td>Consult with advisor or graduate program director about remaining</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for at least 2 credits (1 credit</td>
<td>requirements.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>minimum summer term only).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


### Graduation or Post-Master's Certificates

A graduate certificate is not a degree; it is a focused collection of courses that, when completed, affords the student a record of coherent academic accomplishment in a given discipline or set of related disciplines. A graduate certificate is not a guaranteed means of entry into a graduate degree program. While the courses comprising a graduate certificate may be used as evidence in support of a student’s application for admission to a graduate degree program, the certificate itself is not considered to be a prerequisite.

The course content in a graduate certificate program may represent a practice-oriented segment of an existing graduate discipline. An earned baccalaureate degree or its equivalent from an accredited college or university is required for admission to a graduate certificate program.

A Graduate Programs admission application is required before completion of one-half of the credits in a graduate certificate program. No additional admission application fee is charged for current degree-seeking graduate students at EWU. A maximum of 40% of the credit hours toward any certificate program may be accepted as transfer credit. Students pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students.

---

<table>
<thead>
<tr>
<th>Select outside member for comprehensive examination.</th>
<th>Review Approved Third Member policy in catalog; Graduate Programs office selects from approved graduate faculty unless otherwise specified by department policy.</th>
<th>Graduate Programs office notifies student near the beginning of the term of intended graduation (the term entered on the candidacy) unless student has already identified a member of the graduate faculty as the third.</th>
<th>Provides rigor, procedural guidance, and helps ensure examination is comprehensive.</th>
<th>Late candidacy application delays selection of outside member required for comprehensive exam to be held.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit Terminal Research Approval form.</td>
<td>Committee chair and second committee member sign form and submit to Graduate Programs Office.</td>
<td>Must be received in Graduate Programs Office at least two weeks prior to the exam, earlier is recommended. Exam schedule may be submitted on this form.</td>
<td>Indicates committee approval to proceed with comprehensive examination based on review of drafts.</td>
<td>Comprehensive examination cannot be scheduled without receipt of form in Graduate Programs Office, or if any X grades are on student record for prior terms.</td>
</tr>
<tr>
<td>Schedule comprehensive examination.</td>
<td>Student arranges date, time and location agreed to by all committee members and then notifies Graduate Programs Office.</td>
<td>Graduate Programs Office must be notified two weeks prior to scheduled date and after receipt of Terminal Research Approval Form.</td>
<td>Allows time for notice and comprehensive exam report form to be sent to committee members.</td>
<td>Failure to schedule may lead to cancellation or invalidation of examination.</td>
</tr>
<tr>
<td>Provide approved thesis, research report or other terminal document draft.</td>
<td>Student provides a copy to all comprehensive examination committee members.</td>
<td>Two weeks prior to examination each committee member must have a copy of the document.</td>
<td>Allows faculty sufficient time to review document and prepare for comprehensive examination.</td>
<td>Comprehensive examination could be canceled if documents not provided by deadline.</td>
</tr>
<tr>
<td>Complete comprehensive examination.</td>
<td>Committee Chair submits original form to Graduate Programs office.</td>
<td>Original comprehensive exam report form due in Graduate Programs office immediately following exam.</td>
<td>Verifies examination results; becomes part of permanent student record.</td>
<td>Lack of original form will delay program and degree completion.</td>
</tr>
<tr>
<td>Thesis students only—Submit four copies on 100% cotton bond paper and the $96.50 thesis binding fee, also submit two electronic copies as a Microsoft Word *.docx file and one PDF version (Computer Science students may submit LaTex version of thesis and PDF).</td>
<td>Graduate Programs office must receive the final copies with chair and internal committee member signatures on thesis signature page. At least one copy must have original signatures.</td>
<td>Ten working days after comprehensive examination or by the last day of the term, whichever comes first.</td>
<td>To meet form and style standards, for binding, and distribution to student, department/program and EWU Library.</td>
<td>Possible delay in graduation to following term, delay in binding of thesis.</td>
</tr>
<tr>
<td>Attend Commencement.</td>
<td>Verify completion of application for graduation; order cap, gown and hood four weeks prior to graduation from EWU bookstore.</td>
<td>All participants in May and June Commencement must meet posted spring graduation application deadline to be included in bulletin.</td>
<td>Fall, winter, spring and summer graduates may participate in ceremony.</td>
<td>Participation encouraged; one ceremony and one bulletin published annually.</td>
</tr>
</tbody>
</table>

1 Contact program advisor about any changes to candidacy or committee. All required forms and guidelines can be found at www.ewu.edu/grad (http://www.ewu.edu/grad).
The Graduate Programs office will note successful completion of a certificate program on the student’s transcript after receipt of a completed graduation application. Graduation applications are due following the deadlines for graduate degree graduation applications.

**Graduate Certificates**

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<td>Disability Studies</td>
<td>Disability Studies</td>
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<tr>
<td>Gender and Sexuality Studies</td>
<td>Women’s and Gender Studies</td>
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<td>Geographic Information Systems (GIS)</td>
<td>Geography</td>
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<td>Health Services Administration</td>
<td>Health Services Administration</td>
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<td>Principal Certificate</td>
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<td>Public Management Development</td>
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<td>Teaching of Literature</td>
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</tr>
<tr>
<td>Tribal Planning</td>
<td>Urban and Regional Planning</td>
</tr>
</tbody>
</table>
TRANSFER STUDENTS

Visit the Transfer Students (http://www.ewu.edu/undergrad/transfer) page.

A transfer student for the purposes of admission is defined as a student who has:

- graduated from high school and is currently enrolled in a two-year or four-year institution with course work transferable to Eastern; or
- transferable college-level credit earned after high school graduation.

All transfer applicants are required to submit:

- a completed application for admission;
- official high school transcripts or official GED test scores (if transferring with less than 40 quarter credits);
- official transcripts from every two-year or four-year institution attended;
- official SAT or ACT scores (if transferring with less than 40 quarter credits);
- a non-refundable $50 application fee.

At the time of application to Eastern, transfer applicants are evaluated for admission in one of two ways:

1. transfer applicants with less than 40 quarter hours of transferable college credit at the time of entry must:
   - satisfy the aforementioned freshmen admission criteria and have a cumulative GPA ≥2.0 in all transferable college-level courses.
2. transfer applicants with 40 or more quarter hours of transferable college credit at the time of entry must:
   - show a minimum cumulative GPA >2.5 in all transferable college-level course work; or
   - show a minimum cumulative GPA >2.0 in all transferable college-level course work and completion of college-level English and intermediate algebra.

Note: Acceptance into many majors requires a gpa >2.0, prerequisite courses, service experiences and/or a separate application. Contact the appropriate department for details.

Transfer Agreements

Eastern participates in direct transfer agreements with community colleges in the state of Washington, Oregon, and select colleges in other states. Graduates of these colleges who complete a direct-transfer associate degree are admitted to Eastern with junior standing and have satisfied the lower division general education core requirements.

Intercollegiate (ICAO Policy)

Students transferring to Eastern Washington University from a Washington public baccalaureate institution who have official documentation certifying completion of all the lower division general education requirements from the sending institution have satisfied Eastern’s general education core requirements and university competencies and proficiencies. These are described in the sections titled, Core Requirements and University Competencies and Proficiencies and are shown in the shaded portion of the diagram The Undergraduate Degree.

Transfer Credit and Evaluation of Other Forms of College Credit

Transfer credit is generally awarded for courses completed at regionally accredited two-year or four-year institutions. When determining transferable credit, Eastern adheres to the standards and practices of the American Association of Collegiate Registrars and Admissions Officers. Questions about the transferability of credits completed at institutions that are not regionally accredited should be directed to the Office of Admissions.

Eastern Washington University will accept in transfer toward a bachelor’s degree no more than 90 lower-division credits. After a student has been admitted to a university major, additional lower-division credit may be allowed when:

1. the additional credit will advance the student toward degree completion and
2. the smallest unit responsible for the student’s degree approves a petition filed by the student to allow more than 90 lower-division credits.

No more than 135 credits (lower- or upper-division) may be accepted in transfer for a bachelor’s degree. Transfer credit shall be accepted for upper-division credit only when earned at an accredited four-year, degree-granting institution as upper-division credit.

Advanced Placement: Credit for minimum scores on Advanced Placement examinations given by the College Board is awarded upon receipt of official score reports. Official scores should be submitted to the Office of Admissions. See the Sources of Credit list immediately following this section of the catalog for current score requirements and corresponding credits awarded.

College in the High School Credits: Applicants with credits earned through College in the High School programs must meet freshmen admission criteria. College in the High School courses will be accepted as transferable college credit if they are from a regionally accredited college or university and are consistent with Eastern’s general transfer credit policy.

College-Level Examination Program (CLEP): Eastern Washington University will award credit for CLEP tests. Acceptability of credits toward major requirements or general education core requirements is determined by the appropriate department. See the Sources of Credit list that immediately follows this section of the catalog for current score requirements and corresponding credits awarded.

Experiential Credit: For information on evaluation of experience for credit, see the information under Interdisciplinary Studies in the alphabetical academic program listings in the center of the catalog or contact Interdisciplinary Studies, 361 Senior Hall, EWU, Cheney, WA 99004-2442; phone 509.359.2402.

Foreign Educational Credentials: Students interested in information about credit awarded for selected foreign educational credentials should contact the Office of Admissions.

International Transfer Students: International students interested in transferring credits from a foreign country should submit an evaluated transcript from an evaluation agency and provide individual course descriptions in English of all courses student plans to transfer to EWU. Click a list of accredited agencies (http://www.naces.org).
**International Baccalaureate:** Eastern Washington University will award credit for Higher Level International Baccalaureate exam results of 5 or better. Acceptability of credits toward major requirements or General Education Core Requirements (GECRs) is determined by the appropriate department. See the Sources of Credit list that immediately follows this section of the catalog for current score requirements and corresponding credits awarded.

**Military Credits:** Students may earn up to 45 quarter hours of credit for military educational experiences. This includes credits awarded for CLEP/DANTES tests. Note: Any student pursuing a bachelor of arts in Interdisciplinary Studies (Prior Learning Option) will not be awarded more than 90 quarter hours in credit from a combination of military experience and prior learning block credit. See the information on Interdisciplinary Studies in the alphabetical listing of programs in the center of the catalog.

**Veterans:** College credit may be awarded for military service time. Veterans are encouraged to submit a photocopy or true copy of military separation, DD-214, or an equivalent document for credit evaluation.

**Institutions and Degrees that Fulfill the Direct Transfer Agreement Guidelines**

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</thead>
<tbody>
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<tr>
<td>Big Bend Community College</td>
<td>Associate in Arts and Sciences</td>
</tr>
<tr>
<td>Cascadia Community College</td>
<td>Associate of Integrated Studies</td>
</tr>
<tr>
<td>Centralia Community College</td>
<td>Associate in Arts, Associate in Liberal Arts</td>
</tr>
<tr>
<td>Clark College</td>
<td>Associate in Arts</td>
</tr>
<tr>
<td>Columbia Basin College</td>
<td>Associate in Arts and Sciences</td>
</tr>
<tr>
<td>Edmonds Community College</td>
<td>Associate of Arts</td>
</tr>
<tr>
<td>Everett Community College</td>
<td>Associate in Arts and Sciences</td>
</tr>
<tr>
<td>Flathead Valley Community College</td>
<td>Associate of Arts, Associate of Science</td>
</tr>
<tr>
<td>Grays Harbor College</td>
<td>Associate in Arts</td>
</tr>
<tr>
<td>Green River Community College</td>
<td>Associate in Arts</td>
</tr>
<tr>
<td>Highline Community College</td>
<td>Associate of Arts/Option A</td>
</tr>
<tr>
<td>Lower Columbia College</td>
<td>Associate in Arts</td>
</tr>
<tr>
<td>North Idaho College</td>
<td>Associate of Arts, Associate of Science</td>
</tr>
<tr>
<td>North Seattle Community College</td>
<td>Associate of Arts, Associate of Science</td>
</tr>
<tr>
<td>Northwest Indian College</td>
<td>Associate of Arts and Sciences/Option I</td>
</tr>
<tr>
<td>Olympic College</td>
<td>Associate in Arts, Associate of Science</td>
</tr>
<tr>
<td>Oregon Community Colleges</td>
<td>Associate in Arts Oregon Transfer or AAOOT</td>
</tr>
<tr>
<td>Peninsula College</td>
<td>Associate of Arts, Associate of Arts–Honors</td>
</tr>
<tr>
<td>Pierce Community College</td>
<td>Associate in Arts and Sciences</td>
</tr>
<tr>
<td>Seattle Central Community College</td>
<td>Associate of Arts, Associate of Science</td>
</tr>
<tr>
<td>Shoreline Community College</td>
<td>Associate in Arts</td>
</tr>
<tr>
<td>Skagit Valley Community College</td>
<td>Associate in Arts/University and College Transfer</td>
</tr>
</tbody>
</table>
PLACEMENT

Policy on Enrollment in Pre-University Skills Courses

Students whose placement testing places them in pre-university skills courses must enroll in at least one such course (5 credits) per quarter until these course requirements are satisfied. Furthermore, all students so placed must complete all pre-university mathematics, English and computer literacy courses before the completion of 45 university course credits. Failure to do so will result in a hold on subsequent registration until a plan to satisfy the pre-university requirements is accepted and has been signed off by their advisor. Students who have declared their majors will work with their advisor in their academic departments. Students who are undeclared will work with advisors in General Undergraduate Academic Advising. Students will need adequate advising to remain in compliance with this policy. Unavailability of these courses, as certified by your academic advisor in a given quarter, suspends this requirement for that quarter.

Pre-University Basic Skills include: CPLA 100, ENGL 100, MTHD 103, MTHD 104, MTHD 106.

Admitted freshman and transfer students may be required to complete placement tests in English composition and mathematics.

Examination Requirements

Students must complete a mathematics placement exam if they have not completed the equivalent of MTHD 104 with a grade ≥2.0. Transfer students who do not have an approved direct-transfer associate degree or an intermediate college algebra course with a grade ≥2.0 must take the mathematics placement test. English composition placement is based on a student’s SAT or ACT test scores if the student has not completed at least one composition course at a college or university. Note: the mathematics placement test may be taken twice in a calendar year with at least two weeks between test times.

Computer Literacy Clearance

Computer Literacy clearance must be achieved by all students to earn a baccalaureate degree.

Specific information on what is covered in the challenge exams as well as exam procedures and dates are posted at: complit@ewu.edu

Competency is demonstrated by successful completion of the clearance examination or completion of CPLA 100 (1) with a P grade and CPLA 101 (1) with a grade ≥2.0 or completion of CPLA 120 (5) with a grade ≥2.0.

- CPLA 100 does not count for college credit.

The following students must complete the computer literacy requirements:

- all incoming students without a direct transfer associate degree or a previous bachelor’s degree.
- all students in programs requiring CPLA 100, CPLA 101 or CPLA 120, including students with direct transfer associate degrees.
- all students with course requirements having CPLA 100, CPLA 101 or CPLA 120, including students with direct transfer associate degrees.

English Composition Competency and Proficiency

English Composition competency and proficiency must be demonstrated by all students to earn a baccalaureate degree.

For more information, contact the English Composition Program, 509.359.7064.

Competency is demonstrated by placement into ENGL 201 based on the placement test score or by submission of an official transcript showing completion of ENGL 101 or its equivalent, at a post-secondary institution with a grade ≥2.0.

Students placed into ENGL 100, or ENGL 101, must complete ENGL 100 with a grade of P and ENGL 101 with a grade ≥2.0 before proceeding to the next level of English.

- ENGL 100 does not count for college credit.

Proficiency is demonstrated by completion of ENGL 201 or by submission of an official transcript showing completion of ENGL 201 or its equivalent, at a post-secondary institution with a grade ≥2.0.

- English composition proficiency should be completed as soon as possible because some courses require ENGL 201 as a prerequisite.

Mathematics Competency and Proficiency

Mathematics competency and proficiency must be demonstrated by all students to earn a baccalaureate degree.

Competency is demonstrated by placement into any math course above MTHD 104, based on the placement test scores or by submission of an official transcript showing completion of MTHD 104, or its equivalent, at a post-secondary institution with a grade ≥2.0.

Students must complete the objectives of MTHD 103 and pass MTHD 104 or MTHD 106 with a grade ≥2.0 before proceeding to the next level of mathematics.

- Mathematics competency must be completed before 45 credits are earned.

Note: MTHD 103, MTHD 104, MTHD 106 do not count for college credit.

Proficiency is demonstrated by placement into MATH 161 based on the placement score or by submission of an official transcript showing completion of MATH 161 or its equivalent, at a post-secondary institution with a grade ≥2.0.

Students placed into MATH 141 or its equivalent may obtain mathematics proficiency by completing one of the following requirements with a grade ≥2.0: MATH 107; MATH 121; both MATH 141 and MATH 142; both MATH 211 and MATH 212; MATH 200; MATH 301 or MATH 380 or BIOL 380. Specific mathematics requirements apply to various majors.

Please consult an advisor when deciding which math courses to complete.

- Mathematics proficiency must be completed before 90 credits are earned.
- Additional course work beyond mathematics proficiency may be required to complete the major program requirements.
- Transfer students with an approved direct-transfer associate degree have met the mathematics competency and proficiency
requirement but may need to complete additional math requirements for their major.

- Transfer students who enter the university with 40 quarter credits or more must complete both mathematics competency and mathematics proficiency within three quarters of admission.
## PRIOR LEARNING

### Sources of Credit — AP

Unless otherwise noted, a score of 3 on any exam will receive 5 elective credits.

<table>
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<tr>
<th>AP Exam</th>
<th>AP Score</th>
<th>Credit Awarded</th>
<th>EWU Equivalent/ Elective Credit</th>
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<td>Art</td>
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<td>History of Art</td>
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<td>5</td>
<td>ART 213</td>
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<tr>
<td>Studio Art: 2D Design</td>
<td>4, 5</td>
<td>5</td>
<td>ART 107</td>
</tr>
<tr>
<td>Studio Art: 3D Design</td>
<td>3, 4, 5</td>
<td>5</td>
<td>General Elective</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>5</td>
<td>BIOL 100</td>
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<tr>
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<tr>
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<td>Microeconomic3</td>
<td>3</td>
<td>5</td>
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<td>5</td>
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<td>ECON 200</td>
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<th>Credits</th>
<th>EWU Equivalent</th>
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<tr>
<td>French Language</td>
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<td>FREN 201</td>
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<tr>
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<td>GERM 201 and GERM 202</td>
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<td>Subject</td>
<td>Course</td>
<td>Minimum Score</td>
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<td><strong>Russian Literature</strong></td>
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<td>SPAN 201, SPAN 202 and SPAN 203</td>
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</tr>
<tr>
<td><strong>Physics C (Mechanics)</strong></td>
<td>3</td>
<td>5</td>
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</tr>
<tr>
<td><strong>Physics C (Mechanics)</strong></td>
<td>4, 5</td>
<td>5</td>
<td>PHYS 151, and PHYS 161</td>
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<tr>
<td><strong>Physics C (Electricity and Magnetism)</strong></td>
<td>3</td>
<td>5</td>
<td>General Elective</td>
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<tr>
<td><strong>Physics C (Electricity and Magnetism)</strong></td>
<td>4, 5</td>
<td>5</td>
<td>PHYS 153, and PHYS 163</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
<td>3, 4, 5</td>
<td>5</td>
<td>PSYC 100</td>
</tr>
<tr>
<td><strong>Sources of Credit—CLEP</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>CLEP Course</strong></td>
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<td>Number of Credits</td>
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<tr>
<td>Biology: General Biology</td>
<td>49</td>
<td>15</td>
<td>BIOL 171, BIOL 172 and BIOL 173</td>
</tr>
<tr>
<td>College Composition</td>
<td>50</td>
<td>5</td>
<td>ENGL 101</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>4</td>
<td>MKTG 310</td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td>48</td>
<td>5</td>
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</tr>
<tr>
<td><strong>Economics</strong></td>
<td>47</td>
<td>5</td>
<td>ECON 200</td>
</tr>
<tr>
<td>Political Science, American</td>
<td>47</td>
<td>5</td>
<td>POLI 100</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td>45</td>
<td>5</td>
<td>HIST 110</td>
</tr>
<tr>
<td>History of the U.S. I: Early Colonization to 1877</td>
<td>45</td>
<td>5</td>
<td>HIST 110</td>
</tr>
<tr>
<td>History of the U.S. II: 1865 to Present</td>
<td>46</td>
<td>5</td>
<td>HIST 105</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>47</td>
<td>5</td>
<td>HIST 106</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>47</td>
<td>5</td>
<td>HIST 106</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>50</td>
<td>5</td>
<td>HUMN 211</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>45</td>
<td>5</td>
<td>Mathematics Reasoning Proficiency</td>
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<tr>
<td>Calculus</td>
<td>57</td>
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<td>MATH 114</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>5</td>
<td>MATH 107</td>
</tr>
<tr>
<td>College Mathematics</td>
<td>50</td>
<td>5</td>
<td>MATH 107</td>
</tr>
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<td>Precalculus</td>
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<td><strong>Psychology</strong></td>
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<td><strong>Sociology</strong></td>
<td>47</td>
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**Sources of Credit—International Baccalaureate IB Course Higher Level Exam**

Minimum score 5

<table>
<thead>
<tr>
<th>IB Course</th>
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<th>Number of Credits</th>
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<tbody>
<tr>
<td>Art: Art/Design</td>
<td>ART 107</td>
<td>5</td>
</tr>
<tr>
<td>Biology</td>
<td>BIOL 171, BIOL 172 and BIOL 173</td>
<td>15</td>
</tr>
<tr>
<td>Economics</td>
<td>ECON 200 and ECON 201</td>
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</tr>
<tr>
<td>History</td>
<td>HIST 106</td>
<td>5</td>
</tr>
<tr>
<td>History of Africa</td>
<td>HIST 315</td>
<td>5</td>
</tr>
<tr>
<td>History of the Americas</td>
<td>HIST 110</td>
<td>5</td>
</tr>
<tr>
<td>History of Europe</td>
<td>HIST 106</td>
<td>5</td>
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<tr>
<td>Music</td>
<td>MUSC 250, MUSC 251 and MUSC 252</td>
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<tr>
<td>Physics: Higher Level</td>
<td>PHYS 131, PHYS 132, PHYS 133, PHYS 161, PHYS 162 and PHYS 163</td>
<td>15</td>
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</table>
UNDERGRADUATE DEGREE

• General Education Requirements (p. 39)
• University Competencies and Proficiencies (p. 39)
  • Computer Literacy (p. 39)
  • English Composition (p. 39)
  • Mathematics (p. 40)
• General Education Core Requirements (GECR) (p. 40)
  • Humanities and Fine Arts (p. 40)
  • Social Sciences (p. 40)
  • Natural Science (p. 41)
• University Graduation Requirements (p. 42)
  • Foreign Language (p. 42)
  • Minor or Certificate (p. 42)
  • Certificate Information (p. 45)
  • Senior Capstone (p. 42)
  • Culture and Diversity (p. 43)
  • International Studies (p. 44)
• SOAR (https://sites.ewu.edu/soar/students) (Student Online Academic Review–automated record reflecting academic progress)

General Education Requirements
All Eastern Washington University students are expected to acquire a liberal education. Eastern defines liberal education to include:

• intellectual skills and habits of mind necessary to the pursuit and transmission of knowledge;
• a broad understanding of the history, institutions and traditions that most profoundly influence our social, political, economic, aesthetic and scientific lives;
• specialized knowledge in a discipline (major).

EWU has designed the General Education Curriculum for the purpose of preparing students with the skills, habits of mind and breadth of subject matter that characterize an educated person. Through this curriculum, Eastern ensures that all students encounter the core academic disciplines, especially as they apply to major questions of our times.

General requirements for the baccalaureate degree at Eastern include all of the following

• Minimum Credits—180 cumulative credit hours
• 60 upper-division credits (300 level or above)
• 45 credits in residence (attendance) at Eastern, with at least 15 upper-division credits in major in residence at Eastern
• Minimum Cumulative GPA ≥2.0
  • for Eastern Washington University course work
  • for all General Education Core Requirements
  • for all University Graduation Requirements
  • in major program, subject to departmental requirements
  • in minor program, subject to departmental requirements

Note: general education and graduation requirements are waived for a student possessing a baccalaureate degree from an accredited institution who wishes to obtain an additional undergraduate degree from Eastern.

NOTE: credits earned in the following pre-university courses do NOT count toward the required 180 cumulative credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CPLA 100</td>
<td>COMPUTER LITERACY I</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 100</td>
<td>FUNDAMENTALS OF ENGLISH COMPOSITION</td>
<td>5</td>
</tr>
<tr>
<td>MATH 199</td>
<td>SPECIAL STUDIES</td>
<td>1-5</td>
</tr>
<tr>
<td>MTHD 103</td>
<td>BASIC ALGEBRA/COLLEGE STUDENTS</td>
<td>5</td>
</tr>
<tr>
<td>MTHD 104</td>
<td>INTERMEDIATE ALGEBRA/COLLEGE STUDENTS</td>
<td>5</td>
</tr>
<tr>
<td>MTHD 106</td>
<td>ALGEBRA REASONING</td>
<td>5</td>
</tr>
</tbody>
</table>

University Competencies and Proficiencies
Note: refer to specific department and program listings for their recommended computer literacy, English composition and mathematics courses.

Computer Literacy
The computer literacy competency requirement may be satisfied by successful completion of a computer literacy examination or completion of the course (or courses) required as a result of the computer literacy examination with a grade ≥2.0. These courses may be CPLA 100 (graded pass/no credit only) and CPLA 101 or CPLA 120. Credit for CPLA 100 does not count toward total graduation credits.

English Composition
All students must complete ENGL 201 or its transferable equivalent with a minimum grade ≥2.0.

Students may be placed into English Composition courses by several means. All Running Start students must take the English Composition Program’s Writing Placement Test to determine their placement. Students may be placed using their SAT critical reading (formerly verbal) scores, their ACT English scores, or their TOEFL scores, if available. Students who do not have an SAT critical reading score, an English ACT score, or a TOEFL score and who did not complete the English Language Institute (ELI) program must take the Writing Placement test to determine placement. Transfer students may be placed into a course if they have transferred equivalent composition courses to Eastern. Finally, they may take the Writing Placement test if they do not have test scores and have not transferred any composition credits. (For A.P. credit see page 21 of the catalog.)

SAT critical reading scores

• 440 or below must meet with a general academic advisor to determine placement
• between 450 and 590 will be placed in ENGL 101
• 600 and above will be placed in ENGL 201

ACT English scores

• 17 or below must meet with a general academic advisor to determine placement
• 18–27 placed in ENGL 101
• 28 or above placed in ENGL 201

TOEFL
• all students must have a 525 or above on the TOEFL exam.
• below 67 on the paper based test, or below 29 on the internet-based test, placed in ENGL 112
• at or above 67 on paper based test, or 29 and above on the internet based test, the student will be placed in ENGL 101.

Mathematics

The general education mathematics proficiency requirement may be satisfied by any one of the following: placement into MATH 161, as a result of the math placement test and successful completion of the Mathematical Reasoning Exam or completion of any of the following courses or its transferable equivalents with ≥2.0 minimum grades.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>MATHEMATICAL REASONING</td>
<td>5</td>
</tr>
<tr>
<td>MATH 121</td>
<td>INTRODUCTORY STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 200</td>
<td>FINITE MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 211 &amp; MATH 212</td>
<td>STRUCTURE OF ELEMENTARY MATH I &amp; II</td>
<td>10</td>
</tr>
<tr>
<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
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</table>

List 2: Fine Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>or HONS 213</td>
<td>ART IN THE HUMANITIES</td>
<td></td>
</tr>
<tr>
<td>or HUMN 213</td>
<td>ART IN THE HUMANITIES</td>
<td></td>
</tr>
<tr>
<td>FILM 214</td>
<td>FILM AND THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 290</td>
<td>ARTS AND IDEAS</td>
<td>5</td>
</tr>
<tr>
<td>MUSC 212</td>
<td>MUSIC IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>or HUMN 212</td>
<td>MUSIC IN THE HUMANITIES</td>
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</tr>
<tr>
<td>THTR 202</td>
<td>THEATRE IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>or HUMN 202</td>
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</table>

List 3: Philosophy and Reasoning

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH 203</td>
<td>PHILOSOPHY OF CULTURE</td>
<td>5</td>
</tr>
<tr>
<td>CMST 209</td>
<td>COMMUNICATION, COMMUNITY AND CITIZENSHIP</td>
<td>5</td>
</tr>
<tr>
<td>FINC 200</td>
<td>PERSONAL FINANCE: PHILOSOPHY AND PRACTICE</td>
<td>4</td>
</tr>
<tr>
<td>HUMN 215</td>
<td>INTRODUCTION TO RELIGION</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 270</td>
<td>GREAT WORLD VIEWS</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 290</td>
<td>ARTS AND IDEAS</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 210</td>
<td>CRITICAL THINKING</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 211</td>
<td>INTRODUCTORY PHILOSOPHY</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 212</td>
<td>INTRODUCTORY ETHICS</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 213</td>
<td>MORAL ISSUES IN AMERICA</td>
<td>5</td>
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Open only to admitted Honors Program students

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HONS 101</td>
<td>THE INTELLECTUAL TRADITION: THE ANCIENT</td>
<td>8</td>
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<tr>
<td></td>
<td>WORLD (counts as one Social Science GECR; one Humanities GECR)</td>
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<tr>
<td>HONS 102</td>
<td>THE INTELLECTUAL TRADITION: MIDDLE AGES</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>THROUGH THE REFORMATION (counts as one Social Science GECR; one Humanities GECR)</td>
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Social Sciences (2 or 3 courses)

Students must choose one course per list from each of two or three lists below.

List 1: Economics and Government

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 100</td>
<td>GENERAL EDUCATION ECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ITGS 130</td>
<td>FYE: SOCIAL SCIENCE</td>
<td>5</td>
</tr>
<tr>
<td>POLI 100</td>
<td>MODERN GOVERNMENT IN AMERICAN CONTEXT</td>
<td>5</td>
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</table>

List 2: Anthropology, Geography, Psychology and Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>CULTURAL ANTHROPOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>CMST 208</td>
<td>MASS MEDIA AND THE INFORMATION SOCIETY</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>FUNDAMENTALS OF HUMAN GEOGRAPHY</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>GENERAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>LIFE-SPAN DEVELOPMENT</td>
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General Education Core Requirements (GECR)

• All students without an approved Direct Transfer Agreement (DTA) degree must complete eight general education core requirements (GECRs) totaling at least 36 credits.
• A requirement can be completed by a single approved course of no fewer than 3 credits.
• These courses are designed to provide introductory knowledge, intellectual skills and habits of thought found in the core disciplines of the humanities and fine arts, the social sciences and the natural sciences.
• Students must complete two GECR courses from one breadth area and three GECR courses from each of the other two breadth areas below for a total of eight GECR courses. Students should complete university competencies and proficiencies prior to completion of the GECRs.
• Individual courses may require specific prerequisites. Check the catalog course descriptions for more information.

Humanities and Fine Arts (2 or 3 courses)

Students must choose one course per list from each of two or three lists below.

Note: HUMN 290, may be used to satisfy List 1, 2 or 3 and typically is only offered summer term.

List 1: Literature

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 170</td>
<td>INTRODUCTION TO LITERATURE</td>
<td>5</td>
</tr>
<tr>
<td>GNML 212</td>
<td>MODERN WORLD MASTERPIEZES</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 210</td>
<td>CLASSICS IN LITERATURE</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 211</td>
<td>MASTERPIEZES OF THE WEST WORLD</td>
<td>5</td>
</tr>
<tr>
<td>HUMN 290</td>
<td>ARTS AND IDEAS</td>
<td>5</td>
</tr>
<tr>
<td>ITGS 110</td>
<td>FYE: HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 170</td>
<td>INTRODUCTION TO LITERATURE</td>
<td>5</td>
</tr>
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</table>
List 3: History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AAST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
<td>5</td>
</tr>
<tr>
<td>or HIST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
<td>5</td>
</tr>
<tr>
<td>or HONS 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
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<tr>
<td>HIST 105</td>
<td>WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY</td>
<td>5</td>
</tr>
<tr>
<td>HIST 106</td>
<td>WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT</td>
<td>5</td>
</tr>
<tr>
<td>HIST 110</td>
<td>AMERICAN EXPERIENCE: A SURVEY</td>
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</table>

MGMT 200     BUSINESS HISTORY IN THE U.S.                    | 4     |

Open only to admitted Honors Program students

<table>
<thead>
<tr>
<th>Honors Course</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HONS 101</td>
<td>THE INTELLECTUAL TRADITION: THE ANCIENT WORLD</td>
<td>8</td>
</tr>
<tr>
<td>or HONS 102</td>
<td>THE INTELLECTUAL TRADITION: MIDDLE AGES THROUGH THE REFORMATION</td>
<td>8</td>
</tr>
<tr>
<td>or HONS 103</td>
<td>MODERN SCIENCE AND SOCIETY</td>
<td>8</td>
</tr>
</tbody>
</table>

1 This economics sequence is designed for majors in economics, business or science.

2 Elementary Education candidates are strongly recommended to select from these courses as the content is directly related to Washington State Elementary Endorsement and exit exam requirements.

Natural Sciences (2 or 3 courses)

Students must complete courses from at least two of the lists below.

### Anthropology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 202</td>
<td>HUMAN EVOLUTION</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 204</td>
<td>ARCHAEOLOGICAL SCIENCE</td>
<td>5</td>
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</table>

### Biology

<table>
<thead>
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<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 100</td>
<td>INTRODUCTION TO BIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 115</td>
<td>INVESTIGATING BIOLOGY 1</td>
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</table>

### Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>GENERAL CHEMISTRY FOR THE HEALTH SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>ORGANIC CHEMISTRY FOR THE HEALTH SCIENCES</td>
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### Geology

<table>
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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
<td>5</td>
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</table>

### Physics 2

<table>
<thead>
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<td>AND MECHANICS LABORATORY</td>
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<td>PHYS 132</td>
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<td>or PHYS 162</td>
<td>AND HEAT AND OPTICS LABORATORY</td>
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<td>PHYS 132</td>
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<td>or PHYS 163</td>
<td>AND INSTRUMENTATION LAB I</td>
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<td>or PHYS 164</td>
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<tr>
<td>or PHYS 163</td>
<td>AND MECHANICS LABORATORY (if PHYS 131 and PHYS 161 were not completed)</td>
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University Graduation Requirements

These requirements apply to all undergraduate students who do not have baccalaureate degrees. While general education, in the form of competencies, proficiencies and content-rich survey courses, typically occupies the student’s first two years, liberal education continues to color and challenge every student’s intellectual journey toward graduation. The following requirements may be satisfied through the courses listed or transferable equivalents:

**Foreign Language Requirement for Bachelor of Arts Candidates**

Two years of one single language in high school or one year of a single language in college. Eastern offers these languages: American Sign Language, Chinese, French, German, Japanese, Salish and Spanish.

**Major/Minor or Certificate Requirement**

A minor or certificate is required for any major with fewer than 60 credits. See the department/program section of this catalog for detailed course and graduation requirements.

**Senior Capstone/Thesis Graduation Requirement**

ITGS 400 or for some majors, students may fulfill this requirement by completing a departmental capstone/thesis course. Check with the chair of the major department.

**Capstone Course List**

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<td>CMSD 490S</td>
<td>SENIOR CAPSTONE: PROFESSIONAL ISSUES IN COMMUNICATION DISORDERS</td>
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<td>EXSC 490</td>
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<td>THE GEOGRAPHER’S CAPSTONE</td>
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<td>INST 490</td>
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<td>JRNM 490</td>
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<td>PLAN 490</td>
<td>SENIOR CAPSTONE: PLANNING STUDIO</td>
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<td>POLI 490</td>
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<td>PSYC 490</td>
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<td>SENIOR CAPSTONE: DEVELOPMENTAL PSYCHOLOGY SENIOR SEMINAR</td>
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<td>SENIOR CAPSTONE: MINDS AND VINES: PSYCHOLOGY OF WINE</td>
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<tr>
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<td>SENIOR CAPSTONE IN RACE AND CULTURE STUDIES</td>
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</table>

1 Progression through this series requires a ≥1.7 in BIOL 171 and a ≥2.0 in BIOL 172, BIOL 173 and BIOL 270.
2 With permission, other appropriate physics labs may be substituted for PHYS 163 or PHYS 164.
### Requirement – Cultural and Gender Diversity in the U.S. – select 4 credits minimum from the Cultural and Gender Diversity in the U.S. List.

- Courses and experiences will be designed to provide knowledge and understanding of the cultural diversity of the United States and other societies and cultures of the world.

#### Cultural and Gender Diversity List

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<td>PHILOSOPHICAL VOICES AND POP CULTURE</td>
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WMST 321  SEIX AND GENDER  5
WMST 331  PSYCHOLOGY OF WOMEN  4
WMST 338  DISCOVERING WOMEN IN SCIENCE  1
WMST 366  WOMEN'S HEALTH ISSUES  4
WMST 389  WOMEN, LITERATURE AND SOCIAL CHANGE  5
WMST 394  WOMEN IN AMERICAN HISTORY  5
WMST 415  GAY, LEZIAN, BISEXUAL AND TRANSGENDER STUDIES  5
or HUMN 415  GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES
WMST 417  WOMEN AND ETHICS  5
WMST 421  CARE AND CUSTODY OF FEMALE OFFENDERS  5
WMST 426  ECONOMICS OF POVERTY AND DISCRIMINATION  5
WMST 427  ECONOMICS OF WOMEN AND WORK  5
WMST 432  ANTHROPOLOGY OF GENDER  4
FILM 465  FILM HISTORY I  5
GEOG 230  WORLD REGIONAL GEOGRAPHY  5
GEOL 380  WORLD RESOURCES AND POPULATION  5
GERM 381  NATIONALISM AND RACISM IN CENTRAL EUROPEAN FILM  4
or HUMN 381  NATIONALISM AND RACISM IN CENTRAL EUROPEAN FILM
GERM 382  20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR  5
or HIST 382  20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR
HIST 104  EAST ASIA: TRADITION AND TRANSFORMATION  5
HIST 301  HISTORY OF THE PRESENT  5
HIST 310  IMPERIAL CHINA  5
HIST 315  AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA  5
HIST 350  WAR AND SOCIETY  5
HIST 365  LATIN AMERICAN HISTORY  5
HIST 382  20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR  5
HIST 416  MODERN JAPAN  5
HIST 454  DIPLOMATIC HISTORY OF EUROPE, 1914 TO THE PRESENT  5
HSAD 450  INTERNATIONAL PERSPECTIVES ON HEALTHCARE  4
HUMN 315  EAST-WEST PHILOSOPHIES AND RELIGIONS  5
HUMN 440  PERSPECTIVES ON DEATH  5
IBUS 470  INTERNATIONAL BUSINESS MANAGEMENT  4
IBUS 471  MULTINATIONAL PEOPLE MANAGEMENT  4
IDST 477  CONTEMPORARY INDIGENOUS WOMEN  5
or WMST 477  CONTEMPORARY INDIGENOUS WOMEN
IDST 485  INDIGENOUS EDUCATION  5
or EDUC 485  INDIGENOUS EDUCATION
INST 200  GLOBAL ISSUES  4
INST 380  JAPAN TODAY  4
or JAPN 380  JAPAN TODAY
MGMT 470  INTERNATIONAL BUSINESS MANAGEMENT  4
or IBUS 470  INTERNATIONAL BUSINESS MANAGEMENT
MGMT 471  MULTINATIONAL PEOPLE MANAGEMENT  4
or IBUS 471  MULTINATIONAL PEOPLE MANAGEMENT
PLAN 476  COMPARATIVE URBANIZATION  4
POLI 203  INTRODUCTION TO COMPARATIVE POLITICS  5
POLI 204  INTRODUCTION TO INTERNATIONAL POLITICS  5
POLI 321  INTERNATIONAL ORGANIZATIONS  5
POLI 326  EUROPEAN POLITICS  5
POLI 329  POLITICS OF SOUTH ASIA  5
PSYC 474  CULTURAL PSYCHOLOGY  5
SOCI 263  SOCIAL PROBLEMS  5
SOCI 486  CONTEMPORARY WORLD SYSTEMS  5
TECH 393  TECHNOLOGY WORLD CIVILIZATION  4
or HONS 393  TECHNOLOGY WORLD CIVILIZATION

Requirement—International Studies—select 4 credits minimum from the International Studies List.

• Second year or more advanced language study for 4–5 credits or 10 credits of approved (Japanese) first-year language study may satisfy the International Studies requirement. American Sign Language is excluded from fulfilling the International Studies Requirement.

International Studies List

AAST 315  AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA  5
or HIST 315  AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA  5
or HONS 315  AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA  5
ADST 310  GLOBALLY SPEAKING: WHAT ABOUT DRUGS?  4
ANTH 342  TRIBES, BANDS AND CHIEFDOMS  5
or HONS 342  TRIBES, BANDS AND CHIEFDOMS  5
ANTH 348  PEASANT SOCIETIES  5
ANTH 349  MAJOR CIVILIZATIONS OF ASIA  5
or HONS 349  MAJOR CIVILIZATIONS OF ASIA  5
ANTH 357  PEOPLES OF LATIN AMERICA  5
or HONS 357  PEOPLES OF LATIN AMERICA  5
ANTH 358  MEDICAL ANTHROPOLOGY  5
or HONS 358  MEDICAL ANTHROPOLOGY  5
ANTH 366  REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD  5
or HONS 366  REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD  5
ANTH 450  CULTURAL ECOLOGY  5
or HONS 450  CULTURAL ECOLOGY  5
BIOL 320  THE HUMAN PROSPECT  5
or HUMN 320  THE HUMAN PROSPECT  5
CMST 440  GLOBAL COMMUNICATION  5
ECON 470  INTERNATIONAL ECONOMICS  5
ECON 475  ECONOMIC DEVELOPMENT  5
EDUC 485  INDIGENOUS EDUCATION  5
ENGL 323  A GLOBAL VIEW THROUGH CHILDREN'S LITERATURE  5
or EDUC 323  A GLOBAL VIEW THROUGH CHILDREN'S LITERATURE  5
Certificates

Undergraduate or Post-Baccalaureate Certificates

A certificate is a non-degree sequence, pattern or group of courses or a combination of instruction and independent study that focuses upon an area of specialized knowledge or information developed, administered and evaluated by the institution's faculty members or by faculty-approved professionals. A certificate may include a capstone or practicum experience to facilitate the students' ability to apply their knowledge in a variety of contexts.

A certificate can be matched with a major of less than 60 credits to fulfill the requirement for a minor. The purpose of a certificate is to complement a student's degree program just as a minor does. The certificate generally focuses on an area of study that often has an applied or practical orientation and is usually interdisciplinary in nature, thereby distinguishing it from a minor.
GRADUATION REQUIREMENTS

Application for Graduation

**Major/Minor Form**

Application for graduation is required for any student seeking an undergraduate degree and must be submitted to the graduation evaluator, Records and Registration Office, second floor, Sutton Hall, by the published deadlines. Graduation application deadlines are available in Records and Registration (http://access.ewu.edu/records-and-registration), academic departments, the annual three term announcement. Timely submission provides an opportunity to review degree requirements and to plan or change course enrollment to ensure completion of all requirements.

Students who do not complete all degree requirements in the quarter of intended graduation must reapply for a subsequent quarter with the graduation evaluator. A reapplication fee may be assessed.

The graduation application fee and the reapplication fee change annually. For current fees, please see R (http://www.ewu.edu/registrar)ecords and Registration (http://access.ewu.edu/records-and-registration).

**To Complete an Application for the Undergraduate Degree**

- Submit the Application for Graduation/Major/Minor Requirements approval form with all required faculty signatures to the Records and Registration (http://access.ewu.edu/records-and-registration) Office, 201 Sutton Hall.
- Pay the graduation fee in Student Financial Services (one fee for each degree), 202 Sutton Hall.

**Catalog Options**

The catalog in effect at the time the student is first admitted will be used to determine the general education requirements. The catalog in effect at the time the student declares a major or minor will be used to determine the program requirements. This catalog may only be changed to a newer catalog with the approval of the department chair or program director by resubmitting the major declaration form.

In no case can the catalog used for the major or the minor be more than six years old. A student whose major or minor catalog has expired will be required to submit a new major declaration form; the major and minor will be updated to the catalog in effect at the time of the resubmission.

Exceptional circumstances regarding the catalog used to assess a student’s major or minor may be appealed to the appropriate department.

**Major/Minor Requirements**

Minors are a distinct set of undergraduate courses that have been approved and designated in the catalog. A minor or certificate is required for graduation with any major program of less than 60 credits. Minors or certificates that are required for graduation must contain at least 15 credits that are not part of the major requirements. (The minor or certificate cannot be fully embedded in the major requirements.) Minors that are an option for graduation may be embedded in the major requirements and recorded on official university transcripts.

**Declaring a Major and Minor**

All undergraduates must declare a major by the time they have completed 90 credits. Students who transfer with 90 credits or more must declare a major before registration. Call or email your department of interest for exact procedures on declaring a major/minor. Department contact information is located at the beginning of each Academic Program listing.

**Grading System, Policies and Appeals**

General information is provided in the policy section at the back of the catalog, including the full policy on grade appeals.

**Second Degree Policy**

Students may be awarded more than one undergraduate degree at Eastern Washington University.

- In all cases at least 225 credits are required to earn a second degree. Each subsequent degree requires an additional 45 credits.
- At least 45 credits that are different from those that are included in the first degree and are part of an approved program are required to earn two degrees.
- If fewer than 225 credits are completed, a second major rather than a second degree will be recorded on the university transcript, provided that the credits earned comply with program requirements for that major.
- The student must have the approval of each department chair or program director confirming that all degree requirements have been satisfied.
- If students complete more than one undergraduate major concurrently, a minor is not required.

Transfer post-baccalaureate students can receive a bachelor’s degree from EWU that is of the same type (BA, BS, BAE, etc.) as awarded at the transfer institution, provided EWU’s degree requirements are completed. The major/minor area of emphasis must be different from that awarded at the transfer institution.

Any questions regarding this policy should be directed to the graduation evaluator in Records and Registration, second floor, Sutton Hall.

Note: general education and graduation requirements are waived for a student possessing a baccalaureate degree from an accredited institution who wishes to obtain an additional undergraduate degree from Eastern.

**Second Major Policy**

Students may be awarded more than one major of the same degree type (BA, BS, BAB, BAE, BM and BFA). At least 30 credits in any major must be different from those in any other major.
UNDERGRADUATE POLICIES

Academic Appeals Board (p. 47)
Academic Forgiveness Policy (p. 47)
Academic Probation, Dismissal and Reinstatement (p. 47)
Academic Honors (p. 47)
Academic Standards (p. 48)

Academic Appeals Board

Exceptions to academic regulations are considered by an Academic Appeals Board that consists of faculty and student representatives. The Academic Appeals Board will consider petitions of the following undergraduate requirements:

- general education
- university graduation
- 60 upper-division credits
- 45 credits in residence
- 15 upper division residence credits in major
- foreign language

To submit an appeal to the board, consult with the graduation evaluator in the Records and Registration Office in Sutton Hall. Submission of an appeal should be made sufficiently in advance of graduation so that program planning can be done according to the decision of the board to approve, deny or reconsider the petition.

The Academic Appeals Board does not consider cases that apply to majors or minors, grade appeals or professional certification. Consult with the appropriate department chair or program director to discuss any of these matters.

Academic Forgiveness Policy

1. Undergraduate students may make a one-time petition to have up to two consecutive quarters removed from the calculation of their credits and GPA. The course work must have been completed at least five years prior to this petition.
2. Forgiven courses cannot be used to satisfy any academic requirement.
3. Academic forgiveness may be recommended on a case-by-case basis during advising.
4. To be eligible for academic forgiveness, a student must have completed 30 consecutive credits at Eastern, maintained a GPA ≥2.5 and have declared a major.
5. Academic forgiveness may not be revoked. For further information on Academic Forgiveness, go to the Records and Registration Office, 201 Sutton Hall or call 509.359.2321.

Academic Probation, Dismissal and Reinstatement

All undergraduate students are held to the following academic policies and standards:

- all Eastern Washington University undergraduate students in their first quarter who do not attain a minimum GPA >2.0 will be placed on Academic Warning;
- at the end of each quarter, continuing undergraduate students who do not attain a cumulative GPA ≥2.0 are placed on Academic Probation for the next quarter of enrollment;
- undergraduate students on Academic Warning or Academic Probation who attain a cumulative GPA ≥2.0 are automatically removed from probation;
- undergraduate students on Academic Probation who attain a quarterly GPA of ≥2.0 but whose cumulative GPA is still <2.0 will remain on Academic Probation;
- undergraduate students on Academic Probation who attain a cumulative GPA of >2.0 but whose cumulative GPA is still <2.0 will be moved to Academic Probation;
- undergraduate students on Academic Probation whose cumulative GPA remains <2.0 and whose quarterly GPA is <2.0 will be dismissed from the university;
- to re-enroll after being academically dismissed, officially declared and undeclared students must petition for academic reinstatement through the Office of General Undergraduate Academic Advising (GUAA);
  - students who were officially declared at the time of dismissal and are out for more than one year are dropped from the major;
  - students in this situation will need to re-apply to EWU, as a former student returning (FSR). Please see www.ewu.edu/Apply.xml (http://www.ewu.edu/Apply.xml).
- a dismissed undergraduate student is not eligible to enroll the following academic quarter (fall, winter, spring or summer);
- first-time dismissed undergraduate students will be eligible to petition for reinstatement after one quarter;
- undergraduate students dismissed a second time will be eligible to petition for reinstatement after one year;
- students who are dismissed at the end of spring quarter will not be eligible to enroll in summer or fall quarter but may petition for reinstatement for winter quarter;
- to be eligible for academic reinstatement, dismissed undergraduate students must demonstrate an improved academic performance or readiness for academic success;
- the academic reinstatement process is coordinated through General Undergraduate Academic Advising (GUAA). Visit the GUAA website access.ewu.edu/academic-advising (http://access.ewu.edu/academic-advising) for additional information or call 509.359.2345.

Academic Honors

Deans' Honor List

Undergraduate and post baccalaureate students who complete at least 12 graded credits in a given quarter with a GPA ≥3.50 will be placed on the quarterly Deans' Honor List for academic excellence. The honor is also recorded on their university transcript.

Honors at Graduation

Graduating seniors with a GPA between

4.00 and 3.9 = Summa Cum Laude
3.89 and 3.7 = Magna Cum Laude
3.69 and 3.5 = Cum Laude

Graduating seniors who achieve academic honors will be formally recognized during commencement, on university transcripts and on their diploma. Baccalaureate honors are awarded only to recipients of a first baccalaureate degree. These honors are earned by those students who have completed no fewer than 90 credits at this institution; 60 credits must be for courses in which grade points are awarded. Honors are calculated only on college-level credits earned at this institution.

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**Academic Standards**

Students who enroll at EWU for a second baccalaureate degree, having completed their first undergraduate degree at another university, will have their graduation GPA based on their EWU career only. These students will be eligible for quarterly deans list, under the same standards as any other undergraduate student, but are not eligible for graduation honors.
UNIVERSITY POLICIES

Welcome to Eastern’s Online Policy and Procedure Center (http://www.ewu.edu/about/administration/president/policies)

General Policies
Academic Integrity Policy (https://cfweb.ewu.edu/policy/PolicyFiles/WAC_172_90.pdf)
Access to Academic Records (p. 49)
Residency Status for Higher Education (p. 52)
Student Conduct Code (https://cfweb.ewu.edu/policy/PolicyFiles/WAC_172_121.pdf)
Student Educational Records (https://cfweb.ewu.edu/policy/PolicyFiles/WAC_172_191.pdf) (Family Educational Rights and Privacy Act)
Undergraduate Housing Requirement (https://cfweb.ewu.edu/policy/PolicyFiles/WAC_172_130.pdf)
Course Materials (https://cfweb.ewu.edu/policy/PolicyFiles/WAC_172_132.pdf)
Discrimination, Sexual Harassment, Sexual Misconduct, Domestic Violence, Relationship Violence, Stalking, and Retaliation (https://cfweb.ewu.edu/policy/PolicyFiles/EWU_402_01.pdf)
President’s Diversity Committee (https://cfweb.ewu.edu/policy/PolicyFiles/EWU_104_01.pdf)

Disability Related Policies
Accommodating Persons with Disabilities (https://cfweb.ewu.edu/policy/PolicyFiles/EWU_104_01.pdf)
Supplemental Instructional Materials for Students with Print Access Disability (https://cfweb.ewu.edu/policy/PolicyFiles/EWUG_501_03.pdf)

Grading Policies
Credits (p. 49)
FERPA (p. 57)
Final Exams (p. 49)
Grade Appeals (p. 49)
Grading System (p. 50)
Residency (p. 52)
Washington State Address Confidentiality Program (p. 52)
Withdrawal from the University (p. 52)

Access to Academic Records
Student Directory Information
Certain categories of student information are considered open or directory-type data and may be released to the public if the student is enrolled at the university at the time of request. These categories include name, addresses, telephone number, major field of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received and the most recent previous educational agency or institution attended.

All other information regarding a student’s record or attendance is restricted and may not be released to a third party without the student’s written permission except as allowed under the Family Educational Rights and Privacy Act of 1974. Examples of restricted information are a student’s course enrollment, the number of credits earned and any grade-related information. This policy is in compliance with federal rules and regulations and is intended to protect each student’s privacy and security. See WAC 172–190 in the appendices in the back of this catalog.

Specific details of the Family Educational Rights and Privacy Act of 1974 are available in the Records and Registration Office, 201 Sutton Hall. Also see Appendix B of this catalog.

Special Note: Students may request that directory information not be released to the public. A directory restriction can be requested in person at the Records and Registration office, 201 Sutton Hall or Riverpoint Student Services, N. 668 Riverpoint Blvd., Room 101. Students who request a directory restriction will not be sent general non-educational information from the university. University notice of Dean’s List to local papers and to the National Dean’s List will not be made for students with restrictions. For more information on the directory restriction, see the information in WAC 172–190 below and check with Records and Registration, 201 Sutton Hall, 509.359.2321 or Riverpoint Student Services, 509.828.1394.

Credits
One quarter hour of credit is assigned in the following ratio of hours per week devoted to the course of study:

- lecture/discussion: one hour in the classroom per week for each credit hour (two hours outside preparation expected);
- studio (art classes): minimum two hours in the classroom per week for each credit hour (one hour of outside preparation expected per credit hour);
- laboratory: minimum two hours in the lab per week for each credit hour (one hour of outside preparation expected per credit hour). Ensembl (music classes): minimum two hours per week for each credit hour (one hour of outside preparation expected per credit hour);
- {C}independent study: minimum three hours of work per week for each credit hour.

- the proportion of time in each course assigned to lecture, studio, laboratory, independent study or ensemble is recommended by faculty of the department offering the course.
- the term quarter hour corresponds with credit, hour or credit hour.

Final Exams
Final examinations are scheduled for specific dates and times at the end of each quarter. The examination schedule is published in the university’s quarterly announcement. Final comprehensive examinations should not be given during the regular 10-week schedule.

- Students shall not be granted special examinations for any reason other than a family emergency or other bona fide hardship. Course instructors are the final authority in such circumstances.
- Students that have two final examinations scheduled concurrently by the university must contact one or all instructors involved and ask them to resolve the situation and find a suitable solution.

Grade Appeals
Except for X and Y, all grades are final and can be changed only in the case of university (instructor, clerical or administrative) error. Such
corrections must be submitted by the instructor and approved by the department chair and college dean. Requests for grade corrections must be submitted to the Records and Registration Office within two quarters of the initial grade assignment.

Students have the option of appealing a grade they believe is unfair. To appeal, an Intent to Appeal a Grade or an Official Grade Appeal form must be submitted within the times specified below, or the right to appeal is forfeited. Reasonable exceptions to these deadlines may be made by the chair or designee.

The order of appeal is as follows.

1. File a notice of Intent to Appeal a Grade form within 10 working days after instruction begins for the next regular quarter. These forms are available on request in the department office, the Records and Registration Office or EWU Spokane, Riverpoint, Student Support Center and are submitted to the chair of the department concerned.

2. Discuss the conflict regarding the grade in a timely manner with the instructor concerned. If the discussion between the instructor and student does not lead to a resolution of the conflict and the student wishes to continue the appeal process, the student must confer with the chair or a designee regarding the proposed appeal. If the conflict is not resolved at this level, the chair or designee must provide a written explanation to the student within five working days. If the written explanation is not provided or if the student is not satisfied with this explanation, he/she may make an official grade appeal.

3. The Official Grade Appeal form must be filed in writing with the chair of the department concerned, normally no later than 30 working days after instruction begins for the next regular quarter. These forms are available on request in the department office, the Records and Registration Office or EWU Spokane, Riverpoint, Student Support Center.

4. The grade appeal is heard by a grade appeals board which is to be convened no later than 20 working days after submission of the official grade appeal. (The date may be extended if mutually agreed upon by both parties.) This board is chaired by the department chair or a designee who serves in a nonvoting capacity. Selection of members is facilitated by the department chair or designee unless there is an obvious conflict of interest decided by the dean, in which case the dean or a designee shall do so.

5. Three people will constitute the grade appeals board. The student petitioner shall first nominate a member and then the faculty shall nominate a member. A third member mutually agreeable to both parties will then be selected. At least one of the three members must be a student. The appeal board must be held at a mutually agreeable time.

Parties to the dispute must make a good faith effort to follow these steps or forfeit access to the appeal process.

If the student, faculty or chair has legitimate concerns about the appeal process, the dean of the college will work to alleviate or correct the problems.

The appeal board does not have subpoena power and every attempt will be made to be fair to both parties. The parties may offer exhibits and/or witnesses. The principals may not be represented by counsel or others and the student appellant has the burden of proving by a preponderance of the evidence (more probable than not), that such inappropriate grading procedures have occurred.

Within 10 working days of first convening the appeal board, through its chair, will submit its recommendation in writing to the faculty member concerned, with a copy to the appellant and the dean of the college.

Decisions recommended by the grade appeal board are advisory only. The final decision to change a grade lies with the instructor, except in cases where the instructor cannot or does not respond to the appeal board’s recommendation or in cases where the appeal board’s findings determine prejudiced or other inappropriate grading practices by the instructor. In these cases the final decision to change the grade lies with the dean. There is no further right of appeal.

Within 45 days of the final decision involving a recommended grade change, the chair of the appeal board shall notify in writing the appellant, the dean of the college and the chair of the department concerned of the decision of the appeal board and the faculty member’s decision and action. When the final decision is made by the dean in the cases noted above, the dean shall implement the decision and shall make the proper written notification to the parties concerned.

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**Grading System**

**Grade Reports**

At the end of each quarter, grades are available through EagleNET (https://eaglenet.ewu.edu) starting the Wednesday after finals. The report includes current institutional, transfer and all college cumulative GPA.

**Letter Grades Symbols in Use at Eastern**

- **NC (No Credit):** No credit granted, no grade points assigned.
- **NR:** Not recorded, for work in progress.
- **P (passing):** Credit granted, but no grade point assigned (not used when computing GPA).
- **W (withdrawal):** Withdrawal from a course or the university (not used when computing GPA).
- **X (incomplete):** Temporary grade; special circumstances prevent the student from completing the course (not used when computing GPA).
- **XF (Academic Integrity):** Failed due to academic integrity violation. (0.0 used when computing GPA).
- **Y:** For thesis, research, practicum and other activities requiring more than one quarter for completion; grade assigned at completion.

**Letter Grades Described in Detail**

**Undergraduate Pass/No Credit (P/NC) Grade Option (Department or Program Designated)**

Departments or programs may choose to designate certain courses for pass/no credit grading. Regulations for pass/no credit grading are as follows:

1. the only courses which may be designated by the department as pass/no credit are non-college credit pre-university basic skills;
2. a grade ≥2.0 must be earned to receive a passing grade;
3. The P or NC grade will be entered on the transcript. Students receiving the P grade will not receive credits toward graduation. Neither the P nor the NC grade will be included in computing grade averages.

**Undergraduate Pass/Fail Grade Option (Department or Program Designated)**

Departments or programs may choose to designate only certain types of courses for pass/fail grading.

**Regulations for pass/fail grading are as follows:**

1. Courses required for the following categories may not be designated pass/fail:
   - Major and minor requirements except as approved by the Undergraduate Affairs Council
   - Required supporting courses (courses required for the major or minor but not taught by the major or minor department) except as approved by the Undergraduate Affairs Council
   - Professional education requirements
   - Writing, mathematics and computer competency and proficiency requirements
   - General education core requirements
   - University graduation requirements

2. Directed Studies, Seminars, Internships, Workshops, Practica;

3. A grade ≥2.0 must be earned to receive a passing grade;

4. A P grade will not be calculated in the GPA, but will serve as credits toward graduation, except for non-college credit courses. A fail (0.0) grade will be calculated in the GPA.

**Undergraduate Pass/No Credit Grade Option (Student Designated)**

Students may choose the pass/no credit grading option in certain courses during the registration process.

**Regulations for pass/no credit grading are as follows:**

At the time of registration, students must designate the courses for which they wish to receive a pass/no credit grade. They may change this designation by the regular change of registration procedure through the seventh week of the quarter.

1. Courses required for the following categories may not be taken pass/no credit:
   - Major and minor requirements except as approved by the Undergraduate Affairs Council, including courses substituted for major courses
   - Required supporting courses (courses required for the major or minor but not taught by the major or minor department)
   - Professional education requirements
   - Writing, mathematics and computer competency and proficiency requirements
   - General education core requirements
   - University graduation requirements

2. The minimum level of performance required to receive a grade of P is a 2.0. Students should be aware that performance equal to a grade between 0.7 and 1.9 will not result in a passing mark.

3. The P or NC grade will be entered on the transcript. Students receiving the P grade will receive credits toward graduation. Neither the P nor the NC grade will be included in computing GPAs.

**Incomplete (×)**

Special circumstances, such as severe illness or death of a family member, may warrant an incomplete or × grade. An × grade may be assigned when the student is passing the course but is unable to complete all course requirements. Incomplete grades are only assigned to students who have been attending the class and performed all necessary work up until the last three weeks of the quarter during the academic year or until the last two weeks of summer session.

**Faculty Assignment of an × Grade Requires**

- a meeting with the student to make them aware of the specific terms you are assigning for the completion of work and what the grade will convert to if they do not submit the work in the assigned time frame;
- recording the conversion grade if the student does not complete the work (may be a 0.0);
- recording the extension date for the grade to automatically convert if the work is not completed (end of one quarter, two quarters, three quarters or a full year. The extension date must be prior to the last day of instruction for the quarter indicated.) Incompletes need to be completed within one year of the registered term.

**Ongoing Thesis or Research Work (Y)**

Students engaged in lengthy research projects or other courses that may extend for more than one quarter can be given a grade of Y until the project is complete and a final grade is assigned. Normally these courses are graduate research projects, theses, or internships.

Note: see the specific information on Y grades in the policy section in the front of this catalog under Graduate Studies.

**Numerical Grades**

Most courses at Eastern are graded numerically to the nearest tenth. A guide for equivalents are: Numeric Grade-Letter Grade Equivalent.

<table>
<thead>
<tr>
<th>Numeric Grade</th>
<th>Letter Grade Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>A</td>
</tr>
<tr>
<td>3.9</td>
<td>A</td>
</tr>
<tr>
<td>3.8</td>
<td>A</td>
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<tr>
<td>3.7</td>
<td>A-</td>
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<td>A-</td>
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<tr>
<td>2.4</td>
<td>C+</td>
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<tr>
<td>2.3</td>
<td>C+</td>
</tr>
<tr>
<td>2.2</td>
<td>C+</td>
</tr>
</tbody>
</table>
Numerical Grades and Cumulative GPA

Instructions to Compute Cumulative GPA

1. Multiply numerical grade by the number of credits assigned for each course to determine the quality points for each course. Add the total number of quality points (qp).

   (Pass/No Credit grades are not computed in the GPA.)

2. Add the total number of numerically graded credits, for the total number of quality hours (qh).

3. Divide the total number of quality points by the total number of quality hours for the cumulative GPA.

Example

<table>
<thead>
<tr>
<th>Grades</th>
<th>x</th>
<th>Credits (QH)</th>
<th>Quality Points (QP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>X</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>2.3</td>
<td>X</td>
<td>5</td>
<td>11.5</td>
</tr>
<tr>
<td>4.0</td>
<td>X</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Credits = 11 (QH)

31.5 (QP) = Total Quality Points

31.5 (QP) / 11 (QH) = 2.863 Cumulative GPA

Residency

Residency is determined at the time of formal admission to the university on the basis of information included in the university application for admission. Determination of residency is governed by the statutes and policies of the state of Washington. In general, to qualify for residency, a student must:

- have established a formal residence in Washington for other than educational purposes for at least 12 consecutive months prior to the first day of the quarter for which residency status is requested

or

- be a dependent student whose parent(s) or legal guardian(s) have maintained a bona fide residence in Washington 12 consecutive months prior to the first day of the quarter. A student does not lose residency status because of service in another state or country while a member of the civil or military service, if that person maintains ties and returns to Washington within one year of discharge with intent of maintaining a residence in the state. However, maintaining residency ties in a former or other state (for example by keeping a driver’s license) may invalidate claims to Washington residency.

For more information see Appendix C of this catalog, go to the EWU Residency website at www.ewu.edu/residency or call the Residency Officer for the university at: 509.359.6586.

Washington State Address Confidentiality Program

PO Box 257 Olympia, WA 98507-0257
360.753.2972

This program, administered by the Office of the Secretary of State, provides address confidentiality to relocated victims of domestic violence. If you qualify as a participant, the program allows you to use a substitute mailing address with mail forwarding and service assistance.

Withdrawal from the University

Please see the information on schedule changes under Records and Registration (p. 57).

Appendices

A. Family Educational Rights and Privacy Act of 1974 (p. )
B. Residency Status for Higher Education (p. 52)

Appendix B

Chapter 250–18 WAC

Residency Status for Higher Education

Excerpted from Chapter 250–18 Washington Administrative Code Last Update: 10.04.06

WAC Sections

250–18–010 Purpose and applicability.
250–18–015 Definitions.
250–18–020 Student classification.
250–18–025 Classification procedure.
250–18–030 Establishment of a domicile.
250–18–035 Evidence of financial dependence or independence.
250–18–045 Administration of residency status.
250–18–050 Appeals process.
250–18–055 Recovery of fees for improper classification of residency.
250–18–060 Exemptions from nonresident status.

Dispositions of Sections Formerly Codified in This Chapter


WAC 250–18–010 Purpose and applicability.

This chapter is promulgated pursuant to RCW 28B.15.015 by the board to establish the necessary regulations for the administration of residency status in higher education. Institutions shall apply the provisions of the regulations specified in chapter 250–18 WAC for the uniform
shall be considered a resident only for as long as the student remains the student graduates from high school, and who has enrolled in a public this state, whose parents or legal guardians have been domiciled in the state of Washington for at least one year immediately prior to commencement (b) Is a dependent student, one or both of whose parents or legal financially independent; or (ii) Is immediately prior to commencement of the first day of the semester or quarter for which he or she has registered at any institution; and (a)(i) Has established a bona fide domicile in the state of Washington primarily for purposes other than educational purposes. It is the place where he or she intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere. (3) The term “reside” shall mean the maintenance and occupancy of a primary residence in the state of Washington. (4) The term “financially independent” shall be determined according to WAC 250–18–035. (5) The term “dependent” shall mean a person who is not financially independent. (6) The term “resident” for tuition and fee purposes shall be determined according to WAC 250–18–020. (7) The term “nonresident” for tuition and fee purposes shall be determined according to WAC 250–18–020. (8) The term “recovery of fees” shall apply to the amounts due to the institution or the student as a result of improper classification. (9) The term “civil service” shall mean Washington state or federal government nonmilitary employment. (1) The term “institution” shall mean a public university, college, or community college within the state of Washington. (2) The term “domicile” shall denote a person’s true, fixed, and permanent home and place of habitation for other than educational purposes. It is the place where he or she intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere. (3) The term “reside” shall mean the maintenance and occupancy of a primary residence in the state of Washington. (4) The term “financially independent” shall be determined according to WAC 250–18–035. (5) The term “dependent” shall mean a person who is not financially independent. (6) The term “resident” for tuition and fee purposes shall be determined according to WAC 250–18–020. (7) The term “nonresident” for tuition and fee purposes shall be determined according to WAC 250–18–020. (8) The term “recovery of fees” shall apply to the amounts due to the institution or the student as a result of improper classification. (9) The term “civil service” shall mean Washington state or federal government nonmilitary employment. WAC 250–18–020 Student classification. (1) For a student to be classified as a “resident” for tuition and fee purposes, he or she must prove by evidence of a sufficient quantity and quality to satisfy the institution that he or she: (a)(i) Has established a bona fide domicile in the state of Washington primarily for purposes other than educational for the period of one year immediately prior to commencement of the first day of the semester or quarter for which he or she has registered at any institution; and (ii) Is financially independent; or (b) Is a dependent student, one or both of whose parents or legal guardians have maintained a bona fide domicile in the state of Washington for at least one year immediately prior to commencement of the semester or quarter for which the student has registered at any institution provided that any student who has spent at least seventy-five percent of both his or her junior and senior years in high school in this state, whose parents or legal guardians have been domiciled in the state for a period of at least one year within the five-year period before the student graduates from high school, and who has enrolled in a public institution of higher education within six months of leaving high school, shall be considered a resident only for as long as the student remains continuously enrolled for three quarters or two semesters in any calendar year; or (c) Is a person who has completed the full senior year of high school and obtained a high school diploma-both at a Washington public or private high school approved under chapter 28A.195 RCW (http://apps.leg.wa.gov/rcw/default.aspx?cite=28A.195) (or who has received the equivalent of a diploma). The person must have lived in Washington at least three years immediately prior to receiving the diploma (or its equivalent), and lived continuously in Washington state after receiving the diploma (or its equivalent) until the time of admittance to an institution of higher education (defined as a public university, college, or community college within the state of Washington). In addition, the person must provide an affidavit to the institution indicating that the individual will file an application to become a permanent resident at the earliest opportunity the individual is eligible to do so. Furthermore, the individual must indicate a willingness to engage in other activities necessary to acquire citizenship, including, but not limited to, citizenship or civics review courses; or (d) Is a student who is on active military duty stationed in the state, or who is a member of the Washington national guard; or (e) Is the spouse or dependent of an active duty military person stationed in the state of Washington; or (f) Is a student who resides in Washington and is the spouse or dependent of a member of the Washington national guard; or (g) Is a student of an out-of-state institution of higher education who is attending a Washington state institution of higher education pursuant to a home tuition program agreement under RCW 28B.15.725 (http://apps.leg.wa.gov/RCW/default.aspx?cite=28B.15.725); or (h) Is a student domiciled for one year in one or a combination of the following states: Idaho, Montana, Oregon, or Washington, and is a member of a federally recognized tribe whose traditional and customary tribal boundaries included portions of the state of Washington, or whose tribe was granted reserved lands within the state of Washington. The official list of federally recognized Washington tribes maintained by the governor’s office of Indian affairs shall be used to determine eligibility. (i) Is a student who is a resident of Oregon residing in Columbia, Gilliam, Hood River, Multnomah, Clatsop, Clackamas, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, or Washington county. The student must meet the following conditions: (i) Is eligible to pay resident tuition rates under Oregon laws and has been domiciled in one or more of the designated Oregon counties for at least ninety days immediately prior to enrollment at a community college located in the following Washington counties: Asotin, Benton, Clark, Columbia, Cowlitz, Franklin, Garfield, Klickitat, Pacific, Skamania, Wahkiakum, or Walla Walla; or (ii) Is a student enrolled for eight credits or less at the Tri-Cities branch or Vancouver branch of Washington State University. (2) A student shall be classified as a “nonresident” for tuition and fee purposes if he or she does not qualify as a resident student under the provisions of subsection (1) of this section. A nonresident student shall include a student if he or she: (a) Will be financially dependent for the current year or was financially dependent for the calendar year prior to the year in which application is made and who does not have a parent or legally appointed guardian
who has maintained a bona fide domicile in the state of Washington for one year immediately prior to the commencement of the semester or quarter for which the student has registered at an institution; (b) Attends an institution with financial assistance provided by another state or governmental unit or agency thereof wherein residency in that state is a continuing qualification for such financial assistance, such non-residency continuing for one year after the completion of the quarter or semester for which financial assistance is provided. Such financial assistance relates to that which is provided by another state, governmental unit or agency thereof for direct or indirect educational purposes and does not include retirements, pensions, or other noneconomic related income. A student loan guaranteed by another state or governmental unit or agency thereof on the basis of eligibility as a resident of that state is included in the term “financial assistance;” (c) is not a citizen of the United States of America, unless such person holds permanent or temporary resident immigration status, “refugee-parolee,” or “conditional entrant” status or is not otherwise permanently residing in the United States under color of law and further meets and complies with all applicable requirements of and 250 (http://apps.leg.wa.gov/wac/default.aspx?cite=250%28(E)%E2%80%938%E2%80%93035) (http://apps.leg.wa.gov/wac/default.aspx?cite=250%28(E)%E2%80%938%E2%80%93035)18–035.

(3) A person does not lose a domicile in the state of Washington by reason of residency in any state or country while a member of the civil or military service of this state or of the United States, nor while engaged in the navigation of the waters of this state or of the United States or of the high seas if that person returns to the state of Washington within one year of discharge from said service with the intent to be domiciled in the state of Washington.


**WAC 250–18–025 Classification procedure.**

(1) After a student has registered at any institution as a nonresident, such student's classification shall remain unchanged in the absence of evidence of a sufficient quantity and quality to satisfy the institution to the contrary. The provision of such evidence to the contrary may be initiated by the student or the institution.

(2) Application for a change in classification shall be accepted up to the thirtieth calendar day following the first day of the instruction of the quarter or semester for which application is made. Applications made after that date in any quarter or semester shall be considered to have been filed as of the first day of the subsequent quarter or semester.

(3) Any change in classification, either nonresident to resident, or the reverse, shall be based upon written evidence maintained in the files of the institution.

(4) Approval of an application for resident status shall be made only after satisfaction that the requirements of domicile and independency or dependency have been made in compliance with RCW 28B.15.012 and WAC 250–18–030 and 250–18–035. Reclassification from nonresident to resident status preliminarily approved sixty days or more prior to the satisfaction of a one-year durational domicile shall be supplemented with additional documented proof of domicile if deemed necessary by the institution prior to final approval.

(5) The burden of proof that a student, parent, or legally appointed guardian has established a domicile in the state of Washington primarily for purposes other than educational lies with the student.

(6) For any student classified as a resident or authorized to pay resident fees or exempted from the payment of the nonresident differential on a basis other than an established domicile in the state of Washington, the fee paying status of such student shall be subject to determination each term on the basis of chapter 28B.15 RCW.


**WAC 250–18–030 Establishment of a domicile.**

The domicile of any person shall be determined according to the individual's overall situation and circumstances and is not determined on the basis of a single factor; nor is it a predetermined number of factors required. Institutions shall require evidence of a Washington domicile that is of sufficient quantity and quality to negate the existence of a domicile in a state other than Washington.

A nonresident student who is enrolled for more than six hours per semester or quarter shall be presumed to be in the state of Washington for primarily educational purposes. Such period of enrollment shall not be counted toward the establishment of a bona fide domicile of one year in this state unless such student proves that he or she has, in fact, established a bona fide domicile in this state primarily for purposes other than educational.

To aid the institutions in determining whether a student, parent, legally appointed guardian, or the person having legal custody of a student has established a bona fide domicile in the state of Washington primarily for purposes other than educational, the following factors are to be considered for both the individual and his or her spouse. The weight assigned to any given factor should depend on the ease with which it might be established and the degree to which it demonstrates commitment to domicile as a matter of common sense and as part of the individual’s overall circumstances.
WAC 250–18–035 Evidence of financial dependence or independence.

A person is financially independent if he or she has not been and will not be claimed as an exemption and has not received and will not receive significant financial assistance in any form directly or indirectly from his or her parents, relatives, legal guardians, or others for the current calendar year and for the calendar year immediately prior to the year in which application is made.

(1) To consider a claim that a person is financially independent, the institution may require such documentation as deemed necessary, including but not limited to the following:

(a) That individual's sworn statement.

(b) A true and correct copy of the state and federal income tax return of the person for the calendar year immediately prior to the year in which application is made.

(c) A true and correct copy of the person's W-2 forms filed for the previous calendar year.

(d) Other documented financial resources, which may include but are not limited to the sale of personal or real property, inheritance, trust funds, state or financial assistance, gifts, loans, or statement of earnings of the spouse of a married student.

(e) A true and correct copy of the first and signature page of the state and federal tax returns of the parents, legally appointed guardians, or person or persons having legal custody of the student for the calendar year immediately prior to the year in which application is made.

The extent of the disclosure required concerning the parent's or legal guardian's state and federal tax returns shall be limited to the listing of dependents claimed and the signature of the taxpayer and shall not require disclosure of financial information contained in the returns.

(f) A student whose parents are both deceased or who has been made an official ward of the court may be required to provide documentation attesting to the fact of such circumstances.

(g) Evidence of coverage for medical, life, automobile, and property insurance.

(2) To aid institutions in determining the financial independence of a student whose parents, legally appointed guardian, or person having legal custody of the student do not provide the documentation because of total separation or other reasons from the student, documentation clearly stating the student's status and relationship with his or her parents or legal guardian from a responsible third person, e.g., family physician, lawyer, or social worker may be submitted.

(3) To be considered financially independent, a student must demonstrate by evidence satisfactory to the institution that he or she has met, through his or her income, the expenses associated with college tuition and living for the current calendar year and the calendar year immediately prior to the year in which application is made. Personal loans, PLUS loans (parent loan for undergraduate students), gifts, and cash earnings shall not be counted as income in this calculation. Financial aid grants, scholarships and loans authorized by the financial aid office in the student's name may be considered as personal income.

(4) A trust or other account available to the student shall be considered evidence of financial dependence. If the account was created before the student entered high school, there shall be a rebuttable presumption of dependence.

(5) Information submitted by the student to the institution on the financial aid form may be used to affirm the authenticity of information submitted on an application.

(6) In all cases, the burden of proof that a student is financially independent lies with the student.
Administration of residency status shall be the responsibility of the institution’s board of trustees or regents in compliance with RCW 28B.15.011 through 28B.15.014 and chapter 250–18 WAC.

Boards of trustees or regents shall designate an institutional official responsible for making decisions on resident and nonresident status of students, and for maintaining records and documentation in support of such decisions.

Institutions shall use a uniform statewide form consistent with the provisions of chapter 250–18 WAC for the determination of change in residence status.


WAC 250–18–050 Appeals process.

Any final institutional determination of classification shall be considered a ruling on a contested case and shall be subject to court review only under procedures prescribed by chapter 34.05 RCW.


Note: These “exemptions” require that the university utilize limited tuition waiver funds to offset the non–resident tuition for such students. As the tuition waiver funds are limited by statute, these “exemptions” are not automatic and depend on current university tuition waiver policies as approved by the Board of Trustees annually.
REGISTRATION

201 Sutton Hall—Cheney (http://www.ewu.edu/registrar)
509.359.2321, email (regonline@ewu.edu)
509.828.1394—EWU Spokane Student Services (https://sites.ewu.edu/spokaneservices)

Class Standing Guide (p. 59)
Course Load (p. 59)
Course Numbering Guide (p. 59)
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Enrollment and Registration Process

Eastern Washington University has a web based registration system
through EagleNET (https://eaglenet.ewu.edu). Confirmation of classes
occurs at the time of registration. Registration priority is given to
students continuing their enrollment from the current term to the next;
registration is by scheduled appointment, based on class standing. This
information is published on the Web.

Continuing students may register during or after their appointed time
but not before. Priority registration for fall is held during spring term.
Otherwise, registration for continuing students is scheduled late in each
term.

New freshman students are strongly encouraged to attend firstSTEP
programs, which includes academic advising, registration, campus
tours and information seminars. Information about firstSTEP program
dates and schedules are included with the admission acceptance
notification. Confirmation of acceptance is required to participate in a
firstSTEP program.

Undergraduate transfer students are not required to attend a firstSTEP
program and they may register during the open registration period that
follows priority registration each term. However, advising is required prior
to initial registration.

To Be Eligible to Register a Student Must

Be either a continuing student or accepted for admission or re-admission
for the next term.

1. Obtain advisor authorization whenever required, as follows:
   • new students (first term of enrollment at Eastern,
     undergraduate and graduate) registering for 10 or more credits;
   • all freshmen;
   • all athletes;
   • any undergraduate student on academic probation;
   • any returning student on academic probation or after dismissal;
   • any undergraduate student requesting more than 18 credits;
   • any graduate student requesting more than 18 credits.
   • Running Start students;
   • international students;
   • any student with nine or more withdrawals.

2. Clear any registration holds.
   • Continuing students should check on EagleNET or with the
     Records and Registration Office to determine if there are
     registration holds and the action required to remove the hold.
   • New students will be advised of any holds at registration or
during their advising session.
   • Holds are placed on registration for incomplete transcripts,
     overdue financial obligations, incomplete Financial Aid forms,
     academic probation and dismissal, pre-university basic skills
     and disciplinary action.

3. Register at the appointed time.
   • New undergraduate students may register during their
     firstSTEP program.
   • Continuing graduate and undergraduate students will have
     an appointment time based on class standing. See the
     Classification of Students defined on the next page. Check the
     Records and Registration website for updated information on
     registration. All students are advised to have alternate courses
     selected in case of cancellations.
   • All new students should obtain an Eagle Card (ID card). New
     undergraduate students will receive a student ID card during
     their firstSTEP program.

4. Determine whether to restrict student information.
   • Limited general information on registered students such as
     name, addresses, dates of attendance and degrees earned
     can be legally provided to third parties; however, release of
     this information may be restricted anytime at the Records
     and Registration Office. Grades, class schedule and transcript
     information are not released to third parties unless authorized
     in writing by the student. No information on students is released
     for commercial purposes.
   • A directory restriction may be placed in person at the Records
     and Registration Office.
   • For detailed information, speak with staff in Records and
     Registration, 201 Sutton Hall, or call 509.359.2321 or
     509.828.1394 and see the policy information in the back of this
catalog under Access to Academic Records and the Family

Changes to Registration

Schedule change fees for adding classes begin the eleventh day of
the quarter. Beginning the fourth day of the quarter, late registration
fees are assessed to students not registered in any classes prior to
the sixth day of the quarter. Instructor authorization is required to add
a class or register beginning the fourth day of the quarter. Instructors
are not required to provide class notes, assignments and materials to
students who add a course after the first class meeting; it is the student’s
responsibility to obtain this information.
Some courses may be closed prior to the fourth day of the term. These courses will require instructor authorization to register.

**Dropping Courses**

Courses officially dropped through the Records and Registration Office or EWU Spokane prior to the beginning of the quarter and through the 10th day of the regular academic term will be removed from the student’s record. Refunds are calculated according to the current refund schedule. Schedule change fees for dropping/withdrawing from classes begin the seventh day of the quarter. Current fees are listed on EagleNET.

**Overloading Courses**

Undergraduates who wish to enroll in more than 18 credit hours during a quarter must obtain overload permission from their general or department advisor.

Requests for 19 or more credit hours are generally approved only for those with a GPA ≥3.0. Additional per credit fees are assessed for students enrolled in more than 18 credits per quarter.

**Repeating Courses**

This is general information that may be superseded by specific program rules on repeats, such as those for undergraduate business majors. Graduate students must also follow the specific policies under Academic Standards and Course Repeat.

You may repeat a course for a higher grade. A course may be repeated regardless of its delivery mode (traditional classroom or independent learning). Courses to be repeated for credit value must be identified during the registration process on EagleNET by going to change class options under the registration category or by marking the repeat option square on the paper registration form.

Undergraduate students will be allowed to repeat any single course twice for a total of three enrollments per course. In addition, you are limited to a total of ten repeats. The last grade assigned will be the grade included in the GPA (grade point average) and all grades assigned will remain on the transcript.

**Exception**

If a student is showing progress over time, then he or she may be allowed to take the course additional times. Any repetitions beyond the two allowed by this policy will only be permitted at the discretion of the department chair where the course resides. The total number of repeats still may not exceed ten.

If you fail to indicate the repeat during registration, there may be detrimental effects on your GPA and total credits toward graduation.

The previous course, along with its credits, grade and grade point average, will remain recorded on your transcript but will be superseded by the new course, grade and GPA. Your cumulative GPA will be adjusted to reflect the new grade.

If you are repeating a course in which you have received a letter grade with no numeric value such as W you do not need to indicate this at registration. You should register for the repeat W course as you would normally register for regular credit and grading.

Courses previously taken may not be repeated under the following conditions:

- receiving a pass (P) grade with the Pass/Fail or Pass/No Credit option;
- to improve an undergraduate GPA after receiving a baccalaureate degree;
- effective spring quarter 2010, courses transferred to Eastern from another institution will not be counted as repeats for the purposes of EWU GPA calculation, but can be used to satisfy prerequisites and all other degree requirements.

**Withdrawing from Courses**

Withdrawals result in a W grade on the student record and are accepted in the Records and Registration Office or at EWU Spokane from the eleventh day of the quarter until the end of the seventh week. Schedule change fees apply. Students who enroll but do not attend class must officially withdraw or they will receive a grade of 0.0 and be held financially responsible for all tuition and fees.

If there are any questions about course withdrawal, please call the Records and Registration Office at 509.359.2321 or 509.828.1394.

**Undergraduate Course Withdrawal Policy**

This policy became effective fall quarter 2007 for new students. EWU students are allowed a total of 10 course withdrawals in their undergraduate work. (Withdrawals occur after the normal drop/add period.) Withdrawal from all courses for a quarter for special reasons (for example, extended illness, accident or military service) as documented and approved by Records and Registration would only be counted as a single withdrawal in the apportionment of course withdrawals.

When a student reaches six withdrawals, the student will be notified by Records and Registration. When a student reaches nine withdrawals, a registration hold will be placed on the student’s record and the student will not be allowed to register unless the student has the authorization from his/her advisor (departmental or program if declared, or his/her advisor in the General Undergraduate Academic Advising Office).

If there are any questions about course withdrawal, please call the Records and Registration Office at 509.359.2321 or 509.828.1394.

**Withdrawing From the University**

Complete withdrawal from the university must be done through the Records and Registration Office or EWU Spokane. Complete withdrawal may be done by phoning the Records and Registration Office at 509.359.2321 or 509.828.1394 or coming in-person to complete the Withdrawal Clearance form. There is no schedule change fee to completely withdraw. Refunds are calculated according to the refund schedule. Any student who stops attending and does not officially withdraw from the university will receive grades of 0.0 and be held financially responsible for all tuition and fee charges as well as any applicable financial aid obligations.

Complete withdrawals may be completed any time during the quarter prior to one week before finals. Instructor’s permission may be required after the seventh week of the quarter. Documentation may also be required in certain cases.

If there are any questions about complete withdrawal, please call the Records and Registration Office at 509.359.2321 or Riverpoint Student Services at 509.828.1394.

**Students Ordered to Military Duty**

Students who choose to withdraw are entitled to a reversal/refund of paid tuition, fees and other expenses as described in this chapter.
Classification of Students
A student’s earned credit hours determine undergraduate class standing, including any transfer credits that have been received by the posted deadlines.

Undergraduate: Cumulative Credit Hours Earned Classification

- 0-44: Freshman
- 45-89: Sophomore
- 90-134: Junior
- 135+: Senior

Post-baccalaureate (PB) or Fifth Year (5Y)

Post-baccalaureate students or fifth-year students are those who hold at least one earned undergraduate degree as documented with official university transcripts. Effective fall 2006, credits earned in this status are recorded on a post-baccalaureate transcript.

Students who enroll at EWU for a second baccalaureate degree, having completed their first undergraduate degree at another university, will have their graduation GPA based on their EWU career only. These students will be eligible for quarterly Dean’s List under the same standards as any other undergraduate student, but are not eligible for graduation honors.

Graduate

Full admission to a graduate degree or graduate certificate program requires official transcripts documenting at least an undergraduate degree. See the Graduate Admission Requirements in the front of this catalog for more information.

Course Load

To complete a 180 quarter credit baccalaureate program in four years of study, a student must average 15 university level credit hours per quarter, or 45 credit hours for the academic year. Twelve credits are the minimum required for financial aid eligibility for full-time undergraduates.

Graduate students enrolled in 10 credits per quarter are considered full-time and are eligible for financial aid.

Course Numbers

Eastern’s courses are numbered sequentially from 100 through 799 with divisions designated for each academic level. Use this reference when selecting courses.

Lower Division

100–199 primarily for freshmen; may not be taken for graduate-level credit

200–299 primarily for sophomores; may not be taken for graduate-level credit

Upper Division

300–399 primarily for juniors and seniors; may be used for graduate level credit only with the permission of the vice provost for Graduate Education and Research

400–499 primarily for seniors; graduate students may count a limited number of credits from graded courses, only with program approval

Graduate Level

500–599 graduate level; senior undergraduates may enroll only with permission of both the department chair and vice provost for Graduate Education and Research

600–699 graduate level only

700–799 doctoral level only

All Levels

At all levels, course numbers ending in 95 through 99 indicate special courses, with the particular subject matter varying from quarter to quarter. All departments may offer these types of courses, but not all may be listed in this catalog. Check with the individual program for the availability of special courses.

95–internships

96–experimental courses

97–workshops, short courses, conferences, seminars

98–seminars

99–independent and directed study

Enrollment Verification

Eastern Washington University contracts with the National Student Clearinghouse to verify enrollments for loans, housing, military identification and other general verifications. Students have free access to their enrollment verification via their EagleNET account. Employers, lending services and others must access the National Student Clearinghouse directly for enrollment verification information. (Students needing enrollment verifications for good student discounts, Alaska Department of Revenue, Canadian Student Loan Program or Tax Commission, or students who do not have a Social Security number listed with the university may contact the Office of Records and Registration for assistance with their enrollment verification.)

Full-time Enrollment

Undergraduate: 12 credits—Graduate: 10 credits—International Student: 12 credits undergraduate

Half-time Enrollment

Undergraduate: 6-11 credits—Graduate: 5-9 credits—International Student: 6-11 credits

Less-than-half-time Enrollment

Undergraduate: 1-5 credits—Graduate: 1-4 credits—International Student: 1-5 credits
Notes:

• check with the international student Advisor to verify eligibility for part-time enrollment, otherwise, full-time enrollment is required of all international students, except for vacation quarters;
• for summer session enrollment verifications information please contact Records and Registration.

Grading and Transcripts
See Policies that follow this section of the catalog for general information that applies to all students. For grading policies specific to undergraduate and graduate degree requirements, including academic probation, see the appropriate section in the front of this catalog.

Reporting Grades
At the end of each quarter, grades are available through EagleNET (https://eaglenet.ewu.edu) beginning the Wednesday after final exams.

Transcript Requests
Official copies of Eastern transcripts may be required for a job, a scholarship, graduate school applications or for other purposes. Requests for official Eastern transcripts must be submitted in writing for each transcript to the Records and Registration Office. Please visit the Records and Registration Transcript page (http://access.ewu.edu/records-and-registration/student-records/transcripts) for more information.

Unofficial transcripts may be printed from EagleNET (https://eaglenet.ewu.edu). Current transcript fees are posted on the Records and Registration Transcript page (http://access.ewu.edu/records-and-registration/student-records/transcripts).

Eastern will only fulfill requests for transcripts of course work completed at Eastern. Transcripts received from a high school or another college to fulfill admission requirements are part of each student's academic file and cannot be returned. Additional copies of those records must be requested from the granting institution.

FERPA Policies
Chapter 172–191 WAC
Student Education Records
WAC Sections Last Update: 9/14/09

172–191–010 Purpose.
172–191–040 Right of review and inspection.
172–191–050 Obtaining copies of records.
172–191–060 Amendment of records.
172–191–090 Disclosures authorized without consent.
172–191–110 Right to file a complaint.

WAC 172–191–010 Purpose.
The purpose of this chapter is to establish rules and procedures to comply with the requirements of the Family Educational Rights and Privacy Act of 1974 (FERPA) 20 U.S.C. Sec. 1232g. FERPA provides students with the following rights:

(1) The right to inspect and review their education records;
(2) The right to seek amendment of their education records to correct information which they believe is inaccurate, misleading or otherwise in violation of student privacy rights;
(3) The right to consent to disclosure of personally identifiable information, except for disclosure to school officials with a legitimate educational interest and except to the extent FERPA authorizes disclosure without consent; and
(4) The right to be informed annually of their rights under the act if they are currently in attendance.

The remainder of this chapter details how these rights shall be administered and protected for students of Eastern Washington University.

The following definitions shall apply in interpreting these regulations:

“Attendance” includes, but is not limited to:
(a) Attendance in person or by paper correspondence, video conference, satellite, Internet, or other electronic information and telecommunications technologies for students who are not physically present in the classroom; and
(b) The period during which a person is working under a work-study program.

“Biometric record” as used in the definition of personally identifiable information, means a record of one or more measurable biological or behavioral characteristics that can be used for automated recognition of an individual. Examples include fingerprints; retina and iris patterns; voiceprints; DNA sequence; facial characteristics; and handwriting.

“Education record” is defined as any record maintained by the institution or by a person acting for the institution that is directly related to the student.

(a) Education records include, but are not limited to:
(i) Official transcripts of courses taken and grades received; records relating to prior educational experience; and admission records;
(ii) Tuition and payment records;
(iii) Student disciplinary records;
(iv) Course records (e.g., examinations, term papers, essays, etc.); and
(v) Employment records based on student status are part of the student's education record (e.g., work study and graduate assistant teaching).

(b) Education records do not include the following:
Eastern Washington University will provide students, who are currently attending, annual notification of their rights as required by the Family Educational Rights and Privacy Act. Notice will be provided through university catalogs, quarterly course announcements, or other publications and media that the university deems appropriate. Copies of the university rules are available through the Washington Administrative Code. The university will make copies available to students, if requested. At a minimum, annual notification will include the following information:

1. Rights and procedures related to inspection, review, and requests to amend education records;
2. Rights to consent to disclosure of personally identifiable information contained in student records, except to the extent that such disclosure is legally authorized without consent;
3. Rights to file a complaint with the department of education concerning alleged failures of the institution to comply with FERPA; and
4. University policies related to disclosure of education records to school officials with a legitimate educational interest.

WAC 172–191–040 Right of review and inspection.

Any student shall have a right, subject to the limitations described below, to inspect and review his or her education records maintained by the university.

1. The university may require proof of identification such as: a driver's license; university student identification card; or other photographic identification.
2. The university will comply with a request for access to education records within a reasonable period of time, but not more than forty-five days after it has received the request.
3. Restrictions:
   a. Financial records of the parents of a student or any information contained therein shall not be made available to the student.
   b. Confidential letters and statements of recommendation, which were placed in a student’s education records before January 1, 1975, shall not be made available to the student unless such letters or statements were used for purposes other than those for which they were specifically intended.
   c. Confidential letters and statements of recommendation, which were placed in a student’s education records on or after January 1, 1975, shall not be made available to the student if:
      i. The student has waived his or her right to inspect and review those items in accordance with subsection (4) of this section; and
      ii. The letters and statements involved relate to the student's:
         A. Admission to any educational institution;
         B. Application for employment; or
         C. Receipt of an honor or honorary recognition.
(D) The right to review and inspect does not include records made, maintained, or used by the institution that do not constitute an education record.

(E) In the case of any education records relating to a student which also include information regarding another student or students, the right to review and inspect is limited to the information related to the student making the request. Responsible university officials will redact any personally identifiable information relating to any other student(s).

(4) Waivers: A student or a person applying for admission may waive his/her right of access to confidential statements described in subsection (3) (c)(ii) of this section.

(a) Such waivers may not be required as a condition for admission or receipt of a service or benefit from the institution.

(b) Such waivers shall apply to recommendations only if:

(i) The student is, upon request, notified of the names of all persons making confidential recommendations; and

(ii) Such recommendations are used solely for the purpose for which they were specifically intended.

(c) Waivers must be in writing and signed and dated by the student.

(d) Waivers may be revoked, in writing, by the student; however, the revocation will be effective only for confidential statements or records dated after the revocation.

(5) Destruction of records: Student education records may be destroyed in accordance with the university's approved retention schedule. In no case will any record which is requested by a student for review in accordance with these regulations be removed or destroyed prior to final disposition of the records request.

[WAC 172–191–060 Amendment of records. If a student believes his/her education records contain information that is inaccurate, misleading or in violation of the student's rights of privacy, the student may ask the university to amend the record. Requests for amendment must be submitted to the registrar's office in writing. The registrar will review the request and may consult other university personnel who participated in creation of the record to determine whether to grant the request for amendment.

(1) If the university decides to grant the student's request, the university shall amend the education record and the registrar will inform the student of the action taken. Such notification will be in writing and will be made within a reasonable time.

(2) If the university decides not to amend the education record as requested, the registrar will notify the student in writing within a reasonable time after receiving the request for amendment. Notification will also inform the student of his/her right to a hearing as detailed in WAC 172–191–070.

(3) If a student wants a hearing, the student must make a written request within ninety days of the date of the denial. The request shall be submitted to the registrar and must identify why the student believes the information contained in the education record(s) is inaccurate, misleading, or in violation of the privacy rights of the student.

[WAC 172–191–070 Hearings. Following receipt of a request for a hearing under WAC 172–191–060, the registrar will schedule the hearing. The associate vice president for enrollment services or his/her designee will act as the hearing officer and will provide the student with written notice of the hearing's date, time and place reasonably in advance of the hearing. The student will be provided an opportunity to present evidence relevant to the contested part of the education record. The student may, at his/her own expense, be assisted or represented by one or more individuals of his/her own choice, including an attorney.

(1) The associate vice president for enrollment services or his/her designee will render his/her decision in writing within a reasonable period of time following the hearing. The decision of the officer shall be the university's final decision. The decision must be based solely on the evidence presented at the hearing, and must include a summary of the evidence and the reasons for the decision. The associate vice president
for enrollment services or his/her designee cannot have a direct interest in the outcome of the hearing.

(2) If the associate vice president for enrollment services or his/her designee determines that the record is inaccurate, misleading, or in violation of the privacy rights of the student and denies the student’s appeal, the associate vice president for enrollment services or his/her designee shall notify the student of his/her decision in writing and shall inform them of the right to place a statement in the record commenting on the contested information in the record or stating why he/she disagrees with the decision of the university or both. The university must maintain the statement with the contested part of the record for as long as the record is maintained and must disclose the statement whenever it discloses the portion of the record to which the statement relates.

(3) If the associate vice president for enrollment services or his/her designee determines that the record is accurate, not misleading and not in violation of the privacy rights of the student and denies the student’s appeal, the associate vice president for enrollment services or his/her designee shall notify the student of his/her decision in writing and shall inform them of the right to place a statement in the record commenting on the contested information in the record or stating why he/she disagrees with the decision of the university or both. The university must maintain the statement with the contested part of the record for as long as the record is maintained and must disclose the statement whenever it discloses the portion of the record to which the statement relates.

(4) The appropriateness of official academic grades is not subject to review pursuant to this process.


172–191–080

Students shall provide a signed and dated written consent before an educational agency or institution discloses personally identifiable information from a student’s education records, except as provided by WAC 172–191–090. The written consent must:

(1) Specify the records that may be disclosed;

(2) State the purpose of the disclosure; and

(3) Identify the party or class of parties to whom the disclosure may be made.


172–191–090

WAC 172–191–090 Disclosures authorized without consent.
The university will use reasonable methods to identify and authenticate the identity of persons to whom it discloses personally identifiable information from education records and will not permit the access to or the release of education records or personally identifiable information other than “directory information” as defined in WAC 172–191–100, without the student’s consent, to any party other than the following:

(1) Agencies or organizations requesting information in connection with a student’s application for, or receipt of, financial aid if the information is necessary to:

(a) Determine eligibility for financial aid;

(b) Determine the amount of financial aid;

(c) Determine the conditions of financial aid; or

(d) Enforce the terms and conditions of financial aid.

(2) Authorized representatives of the Comptroller General of the United States, the Attorney General of the United States, the Secretary of the U.S. Department of Education, or state or local authorities requiring access to education records, in connection with the audit or evaluation of a federal or state supported education program or in connection with the enforcement of or compliance with federal legal requirements which relate to such a program.

(3) School officials who have a legitimate educational interest in the records.

(a) A “school official” is:

(i) A person employed by the university in an administrative, supervisory, academic, research, support staff, law enforcement, or health care service position;

(ii) A person serving on the university’s board of trustees;

(iii) A student serving on an official university committee or assisting another school official in fulfilling their professional responsibilities (examples include, but are not limited to, service on a disciplinary committee and work study students); and

(iv) A contractor, consultant, volunteer or other party to whom the university has outsourced to provide a service and/or to assist another school official in conducting official business (examples include, but are not limited to, an attorney, an auditor, a collection agency, or the National Student Clearinghouse, an agency which acts as a clearinghouse for student loan deferment reporting).

(b) “Legitimate educational interest” exists if the information requested by the school official is necessary for the official to perform a task specified in his/her position description or contract agreement including: The performance of a task related to a student’s education; the performance of a task related to the discipline of a student; the provision of a service or benefit relating to the student or student’s family, such as a health education, counseling, advising, student employment, financial aid, or other student service related assistance; the maintenance of the safety and security of the campus; and/or the provision of legal assistance regarding a student matter.

(4) Parent of a minor student or a non-minor dependent student, as defined in the Internal Revenue Code and upon submission of a copy of the most recent Internal Revenue Service annual tax return showing the student as a dependent.

(5) Officials of another school, school system, or institution of postsecondary education where the student seeks or intends to enroll, or where the student is already enrolled so long as the disclosure is for purposes related to the student’s enrollment or transfer. (6) Organizations conducting studies for, or on behalf of, the university for the purpose of developing, validating, or administering predictive tests; administering student aid programs; or improving instruction, if the studies are conducted in a manner that will not permit the personal identification of students or their parents by persons other than representatives of such organizations who have legitimate interests in the information; such information will be destroyed when no longer needed for the purposes for which it was provided; and the university enters into a written agreement with the organization that specifies the purpose, scope and duration of the study and the information to be disclosed, requires the organization...
to use personally identifiable information from education records only to meet the purpose(s) of the study as stated in the written agreement; and requires the organization to conduct the study in a manner that does not permit personal identification of parents and students to anyone other than representatives of the organization with legitimate interests, and requires the organization to destroy or return all personally identifiable information within a specified time period when it is no longer needed for the purposes for which the study was conducted.

(7) Accrediting organizations to carry out accreditation functions.

(8) Persons or entities designated by a judicial order or lawfully issued subpoena, upon the condition that the university makes a reasonable effort to notify the student of all such orders or subpoenas and of its intent to release records in advance of compliance with the order or subpoena, unless:

(a) It is a federal grand jury subpoena and the court has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed;

(b) A subpoena issued for a law enforcement purpose and the court or other issuing agency has ordered that the existence or the contents of the subpoena or the information furnished in response not be disclosed; or

(c) An ex parte court order obtained by the United States Attorney General (or designee not lower than an Assistant Attorney General) concerning investigations or prosecutions of an offense listed in 18 U.S.C. 2332b(g)(5)(B) or an act of domestic or international terrorism as defined in 18 U.S.C. 2331.

(9) Appropriate persons, including parents of an eligible student, in connection with an emergency if the knowledge of the information is necessary to protect the health or safety of the student or other individuals.

(10) Persons who request information that is designated as “directory information.”

(11) Victims alleging a crime of violence or a non-forcible sex offense, the final results of a disciplinary proceeding conducted by the university after October 7, 1998, with respect to the alleged crime or offense. Disclosure is permitted regardless of whether the university concluded a violation was committed.

(12) To others, the final results of the disciplinary proceeding when, at its discretion the university believes that disclosure will serve a legitimate educational interest, and determines through a disciplinary proceeding conducted under its student conduct code that the alleged student perpetrator committed a crime of violence or a non-forcible sexual offense that is a violation of the university's rules or policies with respect to such crime or offense. For purposes of this subsection, “final results” means the name of the student perpetrator, the violation committed, and any sanction imposed by the university on that student. Names of other students involved in the violation, such as a victim or witness, will be released only with the written consent of those students.

(13) Parent of a student of the university regarding the student's violation of any federal, state, or local law, or of any rule or policy of the university, governing the use of alcohol or controlled substance, if the student is under the age of twenty-one, and the university had determined that the student has committed a disciplinary violation with respect to that use or possession. (14) When a parent or eligible student initiates legal action against the university or when the university initiates legal action against the parent or eligible student, the university may disclose to the court any education records of the student that are relevant to the legal action.

(15) Students upon providing evidence sufficient to demonstrate that the requesting individual is in fact the student to whom the records relate such as: A driver's license; a university student identification card; or other photographic identification.

(16) For deceased students, members of the family or other persons with the written approval of the family or representatives of the estate. The request for education records must be accompanied by a copy of the death certificate or obituary. Absent written approval from the family or representative of the estate, only directory information will be disclosed to persons upon request.

(17) The disclosure concerns sex offenders and other offenders required to register under Section 170101 of the Violent Crime Control and Law Enforcement Act of 1994, and the information was provided to the educational agency or institution under 42 U.S.C. 14071 and applicable federal guidelines.

(18) The disclosure involves records or information from which all personally identifiable information has been removed.


172–191–100


Directory information is defined to include: Student's name, address, email address, student net identification number, telephone number, date and place of birth, participation in officially recognized activities and sports, weight, height and birth dates of athletic team members; dates of attendance at the university, degrees and awards received, and the most recent previous educational agency or institution attended by the student.

The university may release “directory information” unless the student files a written request restricting the disclosure of the information. A student's election to opt out of directory information disclosures does not prevent the university from disclosing or requiring a student to disclose his/her name, identifier, or university email address in a class in which the student is enrolled.


172–191–110

WAC 172–191–110 Right to file a complaint.

Students may file a written complaint with the Family Policy Compliance Office of the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of the Family Educational Rights and Privacy Act or its implementing regulations.

ACADEMIC SUPPORT

Centers of Excellence (p. 65)
Diversity Programs (p. 65)
Libraries (p. 66)
Student Life (p. 66)
Student Publications (p. 67)

Academic Resources

Academic Success Center (http://access.ewu.edu/asc)  
509.359.2487
Staffed by professionals who are committed to student success, the Academic Success Center (ASC) emphasizes independent scholarship abilities, collaborative learning and developmental advising.

Get Lit! Literary Programs (http://www.ewu.edu/getlit)  
534 E. Spokane Falls Blvd. Suite 203  
Spokane, WA 99202  
509.368.6590
Get Lit! programs include an annual literary festival (http://%20www.getlitfestival.org) and educational outreach programs that engage members of the Inland Northwest community in a celebration of reading, writing and storytelling for all ages.

Learning Commons (http://www.ewu.edu/learning-commons)  
JFK Library  
509.359.4574
Located on the main floor of JFK Library, the EWU Learning Commons fosters a community of inquiry and intellectual growth and support the: JFK Library; Program Leading to University Success (PLUS); Writers’ Center; Multimedia Commons (MMC); General Undergraduate Academic Advising (GUAA); Career Services; Office of Global Initiatives (OGI).

Professional Design and Photography Services (http://access.ewu.edu/it/services/instructional-technology/graphics-and-photography)  
University Graphics  
203 Huston Hall  
509.359.2435
Graphic design, illustrations and photography for EWU faculty and staff at no charge. Let us bring clarity to your content through collaboration with our design staff.

Ronald E. McNair Scholar Program (http://www.ewu.edu/academics/trio-mcnair-scholar-program/about-mcnair)  
107 Monroe Hall  
509.359.2419
Good things happen when you prepare for graduate school with McNair. We help prepare you for doctoral studies through involvement in research and other scholarly activities.

Technology Services and Support (http://helpdesk.ewu.edu)  
Division of Information Technology (IT)  
JFK Library, Lower Floor  
509.359.2247
Help Desk (http://helpdesk.ewu.edu) Computer Labs (http://access.ewu.edu/it/services/computer-labs)

Writers’ Center (http://www.ewu.edu/writerscenter)  
JFK Library  
509.359.4872
Our Responders offer a collaborative experience that strengthens EWU writers of any ability, from any discipline, and at any stage of the writing process.

Centers of Excellence

Honors (http://www.ewu.edu/academics/honors)  
Dana Elder, Ph.D. Director  
217 Hargreaves  
509.359.2822
Honors, at Eastern Washington University, seeks to cultivate excellence in undergraduate education by providing enhanced educational opportunities to superior students and special teaching opportunities to outstanding faculty.

Inland Northwest Center for Writers (https://sites.ewu.edu/mfa)  
Riverpoint One—Suite 425  
509.359.4956
The Inland Northwest Center for Writers offers an undergraduate emphasis in creative writing within the English major, as well as a Master of Fine Arts degree that is recognized as one of the outstanding programs in the country.

Music (http://www.ewu.edu/cale/programs/music)  
119 Music Bldg.  
509.359.2241
The Music program at EWU is committed to students who seek careers in music as well as to providing music instruction and experience for the general university student.

Diversity Programs

Africana Education Program (http://www.ewu.edu/csbssw/programs/africana-studies-program)  
204 Monroe Hall  
509.359.2205
Academic Support

Africana studies courses provide understanding and appreciation of the universal African diaspora today and historically from an Afrocentric world view.

American Indian Studies Program (http://www.ewu.edu/csbssw/programs/american-indian-studies)
706 5th Street
509.359.2441

Eastern’s American Indian Studies Program is designed to explore the past, present and future of American Indians through studies in their history, literature, research and culture.

Chicano Education Program (CEP) (http://www.ewu.edu/csbssw/programs/chicano-education)
203 Monroe Hall
509.359.2404

The Chicano Education Program offers a Chicano studies academic minor designed to provide all students, regardless of ethnicity, a comprehensive understanding and appreciation of the Chicano/Latino community and relevant issues.

Women’s and Gender Studies Programs (http://www.ewu.edu/csbssw/programs/womens-and-gender-studies)
207 Monroe Hall
509.359.2847

Women’s and Gender Studies offers students an interdisciplinary examination of women’s roles, contributions, history, and experiences, as well as a critical study of gender structures in societies and cultures in the U.S. and the world.

Libraries

John F. Kennedy Library (http://www.ewu.edu/library)
816 F St., 100 LIB
509.359.7888
email (ewuref@ewu.edu)

Spokane Academic Library (http://www.ewu.edu/library/riverpoint)
600 N. Riverpoint Blvd.
Spokane, WA 99210-1495
509.358.7930
email (riverlibrary@ewu.edu)

Student Life

Athletics at Eastern (http://www.goeags.com/landing/index)
207 PEHR Classroom Bldg.
509.359.2463 or toll free 800.648.7697

Career Services (http://www.ewu.edu/community/career-services)
114 Showalter Hall
509.359.6365
Career Services provides resources for every stage of your career development. All our job, internship and volunteer opportunities can be found through EagleAXIS (http://www.ewu.edu/community/career-services/eagleaxis).

Clubs and Organizations (http://access.ewu.edu/student-activities)
320 Pub
509.359.7924
Student Activities, Involvement & Leadership (SAIL) creates activities that entertain you, educate you, and help you become leaders.

Dean of Students–Associate Vice President for Student Life (https://access.ewu.edu/student-life/deanofstudents)
320 Pub
509.359.7924
Student Life offers education through experience for students outside of the classroom.

EPIC Adventures (http://www.ewu.edu/recreation/campus-recreation/epic-adventures)
URC 150
509.359.4014
Email (epicadventures@ewu.edu)
EPIC outdoor program offers outdoor adventures to students, faculty and staff.

Campus Recreation (http://https://www.ewu.edu/recreation/campus-recreation/special-events)
509.359.4836
Club Sport Federation (CSF) (http://https://www.ewu.edu/recreation/campus-recreation/club-sports)
509.359.4013
Campus Recreation is your one stop shop for everything sports including Club Sports, Intramurals, and Outdoor Recreation activities!

Student Rights and Responsibilities (SRR) (https://access.ewu.edu/osrr)
320 PUB
509.359.6960
SRR is primarily responsible for enforcement of the EWU Student Conduct Code. SRR also provides student advocacy and mediation/
conflict resolution services for EWU students who are seeking to resolve conflicts with other students.

**Sorority and Fraternity Life** (http://access.ewu.edu/student-activities/sorority-and-fraternity)

320/322 PUB
509.359.7924

Eastern is the only regional university in the state of Washington to host a sorority and fraternity community.

**Washington Student Association (WSA)** (http://wastudents.org)

320 PUB
509.359.2514
asewulegaffairs@ewu.edu

Washington Student Association (WSA) is a professional statewide non-profit student organization that lobbies for, represents, serves and protects the collective interests of students in post-secondary education in Washington state.

**Student Publications**

**The Easterner** (http://easterneronline.com)

102 Isle Hall
509.359.4318

The independent, student-run news site of Eastern Washington University. If you would like to contribute a story or find out more about joining The Easterner staff, call 509.359.4318. If you have a news tip, press release, or story idea, call 509.359.6270.

**The Focus** (https://sites.ewu.edu/asewu/the-focus)

303 PUB
509.359.2514

A daily newsletter published by the Associated Students of Eastern Washington University during the academic year.
STUDENT SUPPORT SERVICES

Student Services

Academic Advising
307 Monroe Hall
509.359.2345

Graduate Studies Advising
206 Showalter Hall
509.359.6297

We offer affordable graduate programs. Apply by going directly to the online application (https://eaglenet.ewu.edu/PROD-DAD/bwskalog.P_DisplloginNon), however, you should familiarize yourself with the specific program requirements (http://www.ewu.edu/grad/graduate-programs) before submitting your application.

Dining Services
120 Tawanka Hall
509.359.2540

Disability Support Services
121 Tawanka Hall
509.359.6871

The Office of Disability Support Services is dedicated to the coordination of appropriate and reasonable accommodations for students with disabilities.

EWU Diversity
Eastern Washington University pursues diversity as strength – encouraging unique perspective and opinion in a welcoming environment.

EWU Police
For emergencies call 911
509.359.7676 (non-emergency) EWU Police Cheney
509.358.7995 (non-emergency) EWU Spokane
509.359.6310 (non-emergency) EWU police administration
101 Red Barn (7th and Washington in the Red Barn)

EWU Pride Center
The Pride Center at EWU strives to be an inclusive and affirming community space for LGBTQ+ communities and their allies.

Financial Aid and Scholarships
102 Sutton Hall
509.359.2314
Fax: 509.359.4330

The Financial Aid and Scholarship Office helps you obtain funding for your higher education. Financial aid includes scholarships, grants, tuition waivers, work study and loans.

Student Employment
303 Sutton Hall
509.359.2525
fax 509.359.6262

The Student Employment office primarily assists students in finding part-time work to help fund their education, gain valuable work experience, and test out career choices. Search for student employment through EagleAXIS (http://www.ewu.edu/community/career-services/eagleaxis).

Housing and Residential Life
1027 Cedar Street
509.359.2451 or 800.583.3345

...where your college experience begins!

New Student Programs (NSP)
322 PUB (http://access.ewu.edu/nsp)
509.359.6843
email (nspt@ewu.edu)

New Student Transitions & Parent Programs coordinates programs to assist new students and parents in making a successful academic and social transition into Eastern Washington University. These programs include the summer firstSTEP Orientation, Transfer Session, Welcome Week Orientation and Parent Programs.

New Student Orientation and Welcome Week

Student Financial Services (SFS)
202 Sutton Hall or Riverpoint Phase One Bldg.
509.359.6372 or 509.828.1395

The Student Financial Services Office assists families with making payments for tuition, refunding excess financial aid, setting up direct deposit and answering billing questions. We also offer assistance with third party reimbursements and guaranteed tuition plans.

T.O.Y. (Thinking of You Gift Program)
120 Tawanka Hall
EWU’s Thinking of You program is an on campus gift delivery program.

**University Facilities**

An overview of EWU halls and buildings.

**EWU Spokane, Student Services Center**

N. 668 Riverpoint Blvd. Room 101
Spokane, WA 99202
509.828.1395

Student Services aims to support student success by providing student records, registration and account assistance, connecting students to campus resources and serving as a general information hub for EWU Spokane.

**Fine Arts and Music**

Eastern’s fine and performing arts facilities are important resources for students in art, music, theater, KEWU 89.5 FM and electronic media programs for students in other disciplines and community members who want to experience the arts.

**Pence Union Building**

212 PUB
509.359.7921

**University Recreation Center**

A two-level 17,000 sq. ft. fitness center, 30’ indoor climbing wall, Ice rink (June–March), The Roost dining area and more.

**University Services**

**Bookstore**

152 PUB
509.359.2542

The University Bookstore rents and sells textbooks for both Cheney and Spokane courses.

**Childcare at the EWU Children’s Center**

Managed by the YMCA of the Inland NW, the Children's Center offers a developmentally appropriate, child-centered educational program for the children of EWU students, faculty and staff.

**Comprehensive Health & Wellness Program**

Creating a healthier campus community for learning, living, working and playing.

**Counseling and Psychological Services (CAPS)**

Counseling and Psychological Services (CAPS) offers individual counseling for students who want to explore personal concerns with a therapist.

**Eagle Card (EWU ID Card)**

We can provide you with a new or replacement EagleCard anytime during our normal business hours.

**HOME (Helping Ourselves Means Education)**

The H.O.M.E. (Helping Ourselves Means Education) program is affiliated with the Women’s Studies Center that provides support services for Eastern Washington University’s student parents.

**Parking**

Parking at Riverpoint (https://spokane.wsu.edu/facilities/parking)
South Campus Facility Room 314
509.368.6999
e-mail (rpparking@wsu.edu)

Veterans Resource Center (http://access.ewu.edu/veterans-services)
122 Showalter Hall
509.359.7040

The Veterans Resource Center provides critical services and support to our service members, veterans and their families.
FINANCIAL AID

Please visit Financial Aid (http://www.ewu.edu/admissions/financial-aid) or Student Financial Services (http://access.ewu.edu/student-financial-services) for the most current information.
TUITION & FEES

Please visit Student Financial Services (http://access.ewu.edu/student-financial-services).

The Student Financial Services Office assists families with making payments for tuition, refunding excess financial aid, setting up direct deposit, and answering billing questions. We also offer assistance with third party reimbursements and guaranteed tuition plans.
ADMINISTRATION & FACULTY

• Administration (p. 73)
• Faculty (p. 73)
• Faculty Emeritus (p. 86)

Trustees, Senior University Administrators, Deans, Faculty

Board of Trustees (https://www.ewu.edu/about/administration/bot)
Honorable James Murphy-Chair of the Board
Mr. Uriel Iñiguez-Vice Chair of the Board
Mr. Michael Finley-Trustee
Mr. Jay J. Manning-Trustee
Ms. Ariel McMillan-Student Trustee
Mr. Paul Tanaka-Trustee
Honorable Robert H. Whaley-Trustee
Ms. Vicki Wilson-Trustee

University Administration (https://www.ewu.edu/about/administration)
President, Mary Cullinan, PhD
Vice President for Academic Affairs and Provost, Scott Gordon, PhD
Vice President for Business and Finance, Mary Voves
Vice President for Information Technology and Chief Information Officer, Gary Pratt, DM
Vice President for Student Affairs, Stacey Morgan-Foster, JD
Vice President for University Advancement, Michael Westfall

Academic Deans
Dean of the College of Arts, Letters & Education (https://www.ewu.edu/cale/deans-office-staff), Roy Sonnema, PhD
Dean of the College of Business and Public Administration (https://www.ewu.edu/cbpa/college-contact), Martine Duchateau, PhD
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Dean of the College of Science, Technology, Engineering & Mathematics (https://www.ewu.edu/cstem/about/deans-office), David Bowman, PhD
Dean of the College of Social Sciences (https://www.ewu.edu/css/deans-office), Vickie R. Shields, PhD
Dean of Libraries (https://www.ewu.edu/library/services/library-administration/dean-of-libraries), Suzanne Milton

Full-Time Faculty
The following list reflects the status of the Eastern Washington University faculty as of July, 2015. The date following each name is the academic year the faculty member was first hired by the university and does not necessarily imply continuous service since that time.

A
Abbey, Eric—~2013, Assistant Professor in Chemistry—~BA, Whitman College; MS, PhD, University of Oregon
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Wagner, Randel R. — “1998, Professor of Music — BME, Walla Walla College; MA, San Diego State University; D.MA, University of Nebraska, Lincoln

Waldron-Soler, Kathleen M. — “2000, Associate Professor of Counseling, Educational and Developmental Psychology — BA, Whitman College; MS, Eastern Washington University; PhD, Washington State University

Waldrop, Michael V. — “2008, Professor of Music — BM, DMA, University of North Texas; MA, Memphis State University

Walsh, Thomas R. — “2010, Assistant Professor of Engineering and Design — PhD, New Mexico State University

Wang, Lei — “2011, Assistant Professor of AIS Business Analytics — BA, Henan Teacher's University; MBA, East Tennessee State University; PhD, University of South Carolina
Warner, Lisa A. – 2012, Lecturer In Education – BA, MA, Eastern Washington University

Warren, Stacy – 1992, Professor of Geography – BA, University of Delaware; MA, Clarke University; PhD, University of British Columbia

Watkins, Philip C. – 1990, Professor of Psychology – BS, University of Oregon; MA, Western Baptist Seminary; MA, PhD, Louisiana State University

Wehr, Maria – 2016, Lecturer of Mathematics – BA, University of Nevada, MS, University of Nevada,

Weise, David M. – 2013, Lecturer in PHIL – BA, MA, Gonzaga University

Weiser, Martin W. – 2010, Associate Professor of Engineering and Design – BA, Ohio State University at Columbus; MS, PhD, University of California at Berkeley

Weller, Philip J. – 1969, Professor of English – BA, University of Puget Sound; MA, Washington State University; PhD, Kent State University

Werckle, Robert C. – 1993, Senior Lecturer in English as a Second Language – BA, Holy Cross College; MA, Georgetown University

Wetmore, Ann O. – 2009, Assistant Professor in Dental Hygiene – BSDH, Eastern Washington University; MSDH, Idaho State University

Williams, Christopher E. – 2013, Lecturer in Social Work – BA, Western Washington University; MSW, Eastern Washington University

Williams, William C. – 1977, Professor of Psychology – BA, MS, Eastern Washington University; PhD, University of Utah

Wilson, Allison – 2015, Assistant Professor of Education – BS, The University of Idaho; MEd, The University of Montana; PhD, The University of Oregon

Wilson-Fowler, Elizabeth – 2010, Associate Professor of Communication Disorders – BA, University of Virginia; MA, Western Washington University; PhD, Florida State University

Winchell, Richard (Dick) G. – 1986, Professor of Urban and Regional Planning – BA, Wartburg College; MURP, University of Colorado, Denver Center; PhD, Arizona State University

Winkle, Sally A. – 1983, Professor of German and Director, Women’s and Gender Studies – BA, Knox College; MA, University of Georgia; PhD, University of Wisconsin, Madison

Woodward, Sheila C. – 2012, Professor of Music – BM, PhD, University of Cape Town

Wright, Sue M. – 1994, Professor of Sociology – BA, MA, PhD, University of Oregon

Xianghui, Peng – 2016, Assistant Professor of Management – BE, Nanjing University of Aeronautics and Astronautics; MBA, University of Texas Dallas; PhD, University of North Texas


Xiuqin, Bai – 2016, Assistant Professor of Statistics – BS, Hebei Normal University; MS, Shanxi Normal University; MS, Kansas State University; PhD, The Art Institute of China; PhD, Kansas State University

Xu, Bojian – 2011, Associate Professor of Computer Science – Bachelor’s in Engineering, Zhejiang University; PhD, Iowa State University

Yancey, Ryan – 2016, Lecturer of Mathematics – BA, Eastern Washington University; MS, California State University Northridge

Yancey, Ryan – 2016, Lecturer of Mathematics – BA, Eastern Washington University; MS, California State University Northridge

Yasmin, Shamima – 2015, Assistant Professor of Computer Science – BS, Bangladesh University; MS, University of New South Wales; PhD, Universiti Sains Malaysia

Young, Justin A. – 2010, Assistant Professor of English – BA, Evergreen State College; MA, CUNY City College; PhD, University of Oklahoma

Youngs, J. William T. – 1972, Professor of History – BA, Harvard; MA, PhD, University of California, Berkeley

Zeisler-Vralsted, Dorothy – 2006, Professor of Political Science International Studies – BA, Carroll College, Helena, Montana; MA, University of Montana; PhD, Washington State University

Zhou, Duanning – 2001, Professor of Management Information Systems – BS, Jiangxi University; MEng., Zhongshan University; PhD, City University of Hong Kong

Zhu, Leping – 1996, Professor of History – BA, East China Normal University; MA, Wichita State University; PhD, University of New Mexico

Zinke, Robert C. – 1985, Professor of Public Administration – BA, Washington State University; MA, Drew University; PhD, New York University

Zovanyi, Gabor – 1986, Professor of Urban and Regional Planning – A.B., University of California at Los Angeles; M.C.P., San Diego State University; PhD, University of Washington

Zukosky, Michael L. – 2006, Assistant Professor of Anthropology – BA, Fort Lewis College; PhD, Temple University

Emeritus Faculty
A

Alonso, José—˜1967, Professor of Spanish Emeritus 1999
Alvy, Harvey—˜2000, Professor of Education Emeritus 2012
Anderson, Betty—˜1968, Associate Professor of Nursing Emerita
Anderson, Philip—˜1965, Professor of Accounting Emeritus 1999
Andrews, J.—˜1954, Professor of Music Emeritus 1977
Arévalo, Rodolfo—˜2006, President Emeritus 2015
Asan, Virginia—˜1962, Professor of Health, Physical Education and Athletics Emerita 1988
Ayot, Gloria—˜1995, Professor of Education Emerita 2006

B

Balabanis, Achilles—˜1969, Professor of Music Emeritus 1994
Barber, William—˜1969, Professor of Psychology Emeritus 1999
Barnes, Rey—˜1979, Professor of Radio-Television Emeritus 1995
Barr, Robert—˜1965, Professor of Physical Education, Health and Recreation Emeritus 1997
Bates, James—˜1975, Professor of Social Work Emeritus 1999
Baumann, Charles—˜1969, University Librarian Emeritus 1991
Beal, Bruce—˜1968, Professor of Art Emeritus 2000
Behm, Roy—˜1963, Professor of Chemistry/Biochemistry Emeritus 1992
Bell, Donald—˜1964, Professor of Applied Psychology Emeritus 1996
Benson, Jack—˜1965, Associate Professor of Physical Education, Health and Recreation Emeritus 1999
Bickerstaff, Douglas—˜1986, Professor of Computer Science Emeritus 2011
Biehl, Arthur—˜1951, Professor of Music Emeritus 1979
Blewett, Stephen—˜1982, Professor of Journalism Emeritus 2007
Bocaz-Moraga, Sergio—˜1971, Professor of Spanish Emeritus 1995
Boggs, Dona—˜1997, Professor of Biology Emerita 2008
Boles, Stamey—˜1968, Professor of Electronic Media, Theatre and Film Emeritus 1997
Bolte, Linda—˜1993, Professor of Mathematics Emerita 2012
Braukmann, James—˜1984, Professor of Engineering and Design Emeritus 2012
Breitenfeld, Dorovan—˜1962, Professor of Communication Disorders Emeritus 1995
Breneman, Gary—˜1971, Professor of Chemistry/Biochemistry Emeritus 2003
Brock, Barbara—˜1987, Professor of Recreation Management Emerita 2013
Brucker, Benjamin—˜1972, Professor of Education Emeritus 2009
Bruno, Polly—˜1984, Professor of Nursing Emerita 1999
Bruntlett, John—˜1967, Professor of Technology Emeritus 1997
Brzoska, Michael—˜1983, Professor of Engineering Design Emeritus 2010
Bump, Edwin—˜1973, Professor of Accounting Emeritus 1999
Burnham, Kent—˜1970, Professor of Management Information Systems Emeritus 1999
Busskohl, James—˜1970, Professor of English Emeritus 1995
Cameron, Alex—˜1981, Professor of Accounting Emeritus 2010
Carey, Richard—˜1969, Professor of French Emeritus 1990
Carlberg, Karen A.—˜1983, Professor of Biology Emerita 2015
Carpenter, Marilyn—˜1998, Professor of Education Emerita 2011
Carr, Robert—˜1969, Professor of Biology Emeritus 2001
Carr Noreena, M.—˜1980, Professor of Education Emerita 1991
Chapman, Gordon—˜1979, Professor of Accounting Emeritus 2005
Christensen, Sandra—˜1990, Professor of Management Emerita 2011
Clark, R. William—˜1987, Professor of Computer Science Emeritus 2015
Cleveland, Thelma—˜1970, Dean, Intercollegiate Center for Nursing Education Emerita 1997
Coffee, Curtis—˜1970, Professor of Music Emeritus 1996
Cogley, John—˜1978, Professor of Physical Education, Health and Recreation Emeritus 2011
Cook-Lynn, Elizabeth—˜1971, Professor of English Emerita 1990
Cornelius, David—˜1984, Professor of Communication Studies Emeritus 2005

D

Dalla, Ronald—˜1970, Professor of Mathematics Emeritus 2014
Daugharty, Dave—˜1966, Professor of Mathematics Emeritus 1996
Davis, Diane—˜1992, Professor of Social Work Emerita 2012
Davis, Maxine—˜1970, Professor of Physical Education, Health and Recreation Emerita 1999
Denny, Lawrence—˜1984, Professor of Technology Emeritus 1999
Detlor, Dorothy—˜1997, Dean of Washington State University intercollegiate College of Nursing Emerita 2005
Dickerson, Joan—˜1977, Professor of Education Emerita 2003
Donley, Richard—~1967, Professor of History Emeritus 1997
Douglas, John—~1960, Professor of Chemistry/Biochemistry Emeritus 1991
Dowd, Joe—~1999, Professor of Accounting Emeritus 2012
Duenow, John—~1970, Professor of Music Emeritus 1999
Durie, George—~1970, Professor of Government Emeritus 2006
Dustan, Laura—~1975, Dean and Professor of Nursing Emerita 1982
Elkind, Pamela—~1982, Professor of Sociology Emerita 2006
Farris, Kelly—~1970, Professor of Music Emeritus 2000
Forsman, Earl—~1970, Professor of Physics Emeritus 1997
Frederickson, H.—~1977, President Emeritus 1987
Galm, Jerry R.—~1981, Professor of Geography and Anthropology Emeritus 2015
Gariepy, Robert—~1968, Professor of English and Humanities Emeritus and Dean, University Honors Program Emeritus 1993
Graul, Paul—~1986, Professor of Accounting Emeritus 1999
Green, Michael—~1967, Professor of History Emeritus 2001
Green, Paul J.—~1981, Professor of Physical Education, Health and Recreation Emeritus 1995
Greene, William—~1964, Professor of Psychology Emeritus 1998
Gustafson, Dorothy—~1970, Professor of Nursing Emerita 1982

H
Hahn, Patricia—~1968, Professor of Communication Disorders Emerita 1994
Hall, Wayne—~1970, Professor of Education Emeritus 1997
Hamel, Ray—~1970, Professor of Computer Science Emeritus 2010
Hanegan, James—~1970, Professor of Biology Emeritus 1997
Hartman, Walter—~1965, Professor of Management Information Systems Emeritus 1996
Haugen, David—~1969, Professor of Communication Disorders Emeritus 2000
Hawkins, Gregory—~1973, Professor of Art Emeritus 2003
Hegi, Ursula—~1984, Professor of English/Creative Writing Emerita 2001
Hernandez-Peck, Maria—~1981, Professor of Social Work Emerita 2013
Hoth, Robert—~1969, Professor of Government Emeritus 2000
Hicks, Gail—~1974, Professor of Psychology Emerita 2012
Higman, Perry—~1971, Professor of Spanish Emeritus 2009
Hoffman, James—~1991, Provost Emeritus and Professor of Geology Emeritus 2002
Holloway, Jan—~1970, Professor of Nursing Emerita 1999
Horner, Donald—~1966, Professor of Mathematics and Computer Science Emeritus 1997
Horner, William—~1976, Professor of Social Work Emeritus, 2009
Hornfelt, Archie—~1961, Professor of Technology Emeritus 1988
Hosking, Neville—~1994, Professor of Education Emeritus 2005
Hoskin, Russ—~1979, Professor of Education Emeritus 1999
Hunter, Carolyn—~1970, Professor of Nursing Emerita 1995
Hurand, Fred—~1977, Professor of Urban and Regional Planning Emeritus 2012

I
Ikramuddin, Mohammed—~1976, Professor of Geology Emeritus 2003
Jansen, Golieda—”1992, Professor of Social Work Emerita 2012
Jenkin, Shirley—”1970, Professor of Nursing Emerita 1998
Johns, Jerry—”1964, Professor of Biology Emeritus 1982

Kaiser, Mabel—”1941, Professor of Elementary Education Emerita 1974
Kasuga, Sidney—”1970, Professor of Biology Emeritus 2013
Keeble, John—”1973, Professor of English/Creative Writing Emeritus 2002
Kelley, Patricia—”1994, Dean of Libraries Emerita and Librarian IV Emerita 2010
    Kelley, William—”1978, Professor of Urban and Regional Planning Emeritus 2013
Kieswetter, James—”1968, Professor of History Emeritus 2013
Kiser, Larry—”1972, Professor of Economics Emeritus 2007
Kiver, Eugene—”1968, Professor of Geology Emeritus 2001
Kraft, Lawrence—”1966, Professor of Communication Studies Emeritus 1991
    Kraft, Wayne B.—”1968, Professor of Modern Languages Literatures Emeritus 2015
Krause, Jerome—”1967, Professor of Physical Education, Health and Recreation Emeritus 1999
Kuo, David—”1969, Professor of PHIL Emeritus 1999

Lang, Bruce—”1967, Professor of Biology Emeritus 2005
Lapoint, Elwyn—”1967, Professor of Anthropology Emeritus 2006
Lauritsen, Frederick—”1969, Professor of History Emeritus 2000
Leach, Judith—”1984, Professor of Education Emerita 2005
Lester, Mark—”1982, Professor of English Emeritus 1999
Lightfoot, Donald—”1982, Professor of Biology Emeritus 2009
Lightfoot, Haideh—”1979, Professor of Biology Emerita 2008
Liu, Tsung-Hua—”1970, Professor of Economics Emeritus 2003
Lloyd, Robert—”1974, Professor of Art Emeritus 2004
Logan, Jerry—”1994, Associate Professor of Education Emeritus 2004
Lotzenhiser, George—”1960, Professor of Music Emeritus and Dean, School of Fine Arts Emeritus 1982
Luse, Patricia—”1996, Professor of Education Emerita 2008
Luton, Lawrence—”1984, Professor of Public Administration Emeritus 2014

Mager, John—”1987, Professor of Marketing Emeritus 2009
Marshall, James—”1971, Professor of Physics Emeritus 1992
Martin, Gerald—”1970, Professor of Physical Education, Health and Recreation Emeritus 1996
Martin, Jackson—”1969, Professor of Education Emeritus 1995
Martin, W.—”1970, Professor of Technology Emeritus 1993
Mason, John B.—”2007, Professor of English Emeritus 2015
Matison, Sonja—”1977, Professor of Social Work Emerita 1999
McAuley, James—”1970, Professor of Creative Writing Emeritus 1998
McDermott, Elroy—”1965, Professor of Marketing and Management Emeritus 1999
McGinty, Robert—”1980, Professor of Management Emeritus 2010
McGinty, Susan—”1982, Professor of English Emeritus 2007
McGoran, Ernest—”1966, Professor of Chemistry and Biochemistry Emeritus 2012
McHenry, Diane—”1970, Professor of Dental Hygiene Emerita 1998
McKinlay, Helen—”1969, Professor of Nursing Emerita 1977
McKinstry, David—”1983, Professor of Physics Emeritus 2008
McManis, Donald—”1969, Professor of Applied Psychology Emeritus 1997
McManus, Patrick—”1959, Professor of Journalism Emeritus 1982
Mealey, Anne—”1973, Professor of Nursing Emerita 2001
Melville, D.—”1981, Professor of Physical Education, Health and Recreation Emeritus 2012
Mercer, Gerald—”1954, Professor of Education Emeritus 1977
Miller, Barbara S.—”1972, Professor of Art Emeritus 2016
Mitchell, Bruce—”1968, Professor of Education Emeritus 1994
Morgenstern, Robert—”1970, Professor of Criminal Justice Emeritus 1998
Morris, Lynne—”1983, Associate Professor of Social Work Emerita 2011
Morrow, Robert—”1964, Professor of Education Emeritus 1986
Moyahan, James—”1966, Professor of Criminal Justice Emeritus 1999
Mullin, Thomas—”1991, Professor of Theatre and Film Emeritus 2013

Nelson, David—”1972, Librarian Emeritus 2006
Nelson, Frank—“1968, Professor of Business Education Emeritus 2007
Nelson, Mary—“1967, Professor of English Emerita 1995
Neubauer, Robert—“1974, Professor of Social Work Emeritus 2001
Nichols, Claude—“1961, Professor of History Emeritus 1996
Nickerson, Ardean R.—“1984, Professor of Dental Hygiene Emerita 2015
Niemann, Joan—“1976, Professor of Applied Psychology Emeritus 1996
Noble, Karen L.—“1973, Professor of Music Emeritus 2016
Norby, Janet—“1977, Professor of Education Emerita 1994
Nowlin, Donald—“1983, Professor of Mathematics Emeritus 2006
O
Orton, Gayle—“1984, Professor of Dental Hygiene Emerita 2000
Otto, Theophil—“1985, Librarian IV Emeritus 2013
O’Regan, Austin—“1965, Professor of English Emeritus 1982
P
Parker, O.—“1968, Professor of Chemistry/Biochemistry Emeritus 2006
Pendarvis, Jill—“1972, Professor of Nursing Emerita 1993
Pippard, James—“1977, Professor of Social Work Emeritus 2010
Powers, Walter—“1954, Professor of Applied Psychology Emeritus 1993
Prekeges, Demetrios—“1963, Professor of Mathematics Emeritus 1983
Pyle, Thomas—“1969, Professor of Psychology Emeritus 1999
Q
Quincy, H.—“1970, Professor of Government Emeritus 2003
R
Radebaugh, Muriel—“1982, Professor of Education Emerita 2003
Raley, Adam—“1970, Professor of Humanities and PHIL Emeritus 1998
Reitsch, Arthur—“1969, Professor of Management Information Systems Emeritus 1998
Reitsch, Judith—“1973, Professor of Education Emerita 1998
Renga, Sherry—“1986, Professor of Mathematics Emerita 2002
Ridings, Robert—“1988, Professor of English Emeritus 2008
Ritter, Preston—“1970, Professor of Chemistry/Biochemistry Emeritus 2007
Rivers, Travis—“1963, Professor of Music Emeritus 1997
Roberts, Hilda—“1945, Professor of Nursing Emerita 1982
Robinson, Stanley—“1966, Professor of Computer Science Emeritus 1987
Rolfe, Timothy—“1998, Professor of Computer Science Emeritus 2011
Rosekrans, Frank—“1969, Professor of Psychology Emeritus 1999
Rosenberg, Marie—“1981, Professor of Public Administration Emerita 1986
Rostkoski, David—“1970, Professor of Music Emeritus 2001
Rottmayer, William—“1970, Professor of PHIL Emeritus 1999
S
Salsbury, Robert—“1968, Professor of Education Emeritus 1999
Sawyer, Ray—“1963, Professor of Mathematics Emeritus 1995
Saylor—“1977, Dean of Libraries and Librarian IV Emeritus 1996
Schilt, Alexander—“1987, President, Professor of Applied Psychology Emeritus 1989
Scholz, Allan T.—“1980, Professor of Biology Emeritus 2015
Schroder, Lula—“1966, Professor of Education Emerita 1987
Schuster, Joseph—“1968, Professor of Government Emeritus 1996
Scott, Stephen—“1969, Professor of PHIL Emeritus 2008
Seedorf, Martin—“1989, Professor of History Emeritus 2009
Seedorf, Rita—“1990, Professor of Education Emerita 2006
Seifert, Alys—“1981, Professor of French Emerita 2003
Sevenich, Richard—“1987, Professor of Computer Science Emeritus 2006
Shapiro, Howard—“1970, Professor of Accounting Emeritus 2006
Sheafor, Marian—“1983, Professor of Nursing Emerita 1998
Sherwood, Frances—“1998, Professor of Education Emerita 2014
Simmons, Steven—“1969, Professor of Computer Science Emeritus 2013
Simms, Horace—“1966, Professor of Biology Emeritus 1982
Simpson, Leo—“1977, Professor of Management Emeritus 2001
Smith, Marvin E.—“1984, Professor of Electronic Media and Film Emeritus 2014
Smith, Robert—“1958, Professor of English Emeritus 1982
Snook, James—“1967, Professor of Geology Emeritus 1993
Soltero, Raymond—“1971, Professor of Biology Emeritus and Dean of the College of Science, Health and Engineering Emeritus 2006
Stanley-Weigand, Pamela—“1983, Professor of Business Communications Emerita 2013
Steele, William—“1970, Professor of Geology Emeritus 1998
Stephens, Lynn—^1981, Professor of Accounting Emerita 2008
Sterner, Gary—^1970, Professor of Psychology Emeritus 1997
Strange, Frederick—^1970, Professor of Anthropology Emeritus 2003
Stredwick, Ralph—^1957, Professor of Education Emeritus 1980
Stucker, Jennifer—^1987, Professor of Social Work Emerita 2012
Stueckle, Arnold—^1968, Professor of Education Emeritus 1997
Sublett, Christopher—^1973, Professor of Art Emeritus 2002
Swan, Jack—^1970, Professor of Mathematics Emeritus 1993
Swedberg, Kenneth—^1962, Professor of Biology Emeritus 1995
Taylor, Benard—^1962, Professor of Psychology Emeritus 1991
Thiele, Joan—^1986, Professor of Nursing Emerita 2003
Thompson, Duane—^1966, Professor of Applied Psychology Emeritus and Vice President for Academic Affairs and Provost Emeritus 1992
Thompson, Robert—^1964, Professor of Mathematics Emeritus 1991
Throckmorton, Robert—^1967, Professor of Sociology Emeritus 1999
Todd, Nancy—^1988, Professor of Education Emerita, 2007
Toneva, Elena T.—^2000, Professor of Mathematics Emeritus 2016
Tracy, Joan—^1967, Librarian Emerita 1990
Tracy, Keith—^1964, Professor of English Emeritus 1987
Trulove, William—^1969, Professor of Economics Emeritus 2013
Turbeville, Daniel—^1992, Professor of Geography Emeritus 2014
Van Winckel, Nance—^1990, Professor of English/Creative Writing Emerita 2007
Wallace, James—^1967, Professor of Government Emeritus 1996
Wasem, Jim—^1981, Professor of Physical Education, Health and Recreation Emeritus 2000
Westrum, Helen—^1966, Professor of Home Economics Emerita 1988
Whelton, Bartlett—^1974, Professor of Chemistry/Biochemistry Emeritus 2004
White, Irle—^1987, Professor of Theatre Emeritus 1994
White, Ronald—^1965, Professor of Biology Emeritus 1997
Wilkens, Robert—^1968, Professor of Education Emeritus 1997
Williams, William—^1969, Professor of Education Emeritus 1998
Winters, Patrick—^1987, Professor of Music Emeritus 2016
Wong, Heung—^1968, Professor of History Emeritus 2002
Woodell, Lois—^1965, Professor of Business Education Emerita 1985
Yarwood, Edmund—^1968, Professor of Russian and English Emeritus and Dean Emeritus, College of Letters, Arts, and Social Sciences 2002
Young, Shik—^1966, Professor of Economics Emeritus 1998
Zimmerman, Niel—^1970, Professor of Public Administration Emeritus 2000
Zurenko, John—^1968, Professor of Management of Management Information Systems Emeritus 1999
ACADEMIC AFFAIRS

Departments, programs and degrees are listed on the navigation bar. For more information about the college, visit the Academic Affairs home page (http://access.ewu.edu/provosts-office).

Career Services

Virginia Hinch, Assistant Vice President, Student Services and Executive Director, Career Development
department page (https://www.ewu.edu/community/career-services)
114 Showalter Hall
509.359.2329

Career Services programming provides students at any level of their education with the knowledge, skills and confidence necessary to make informed, intentional and individual choices about their academic and professional development. Course offerings engage and develop student skills in critical thinking, communication and research to choose inspiring majors, gain significant pre-professional experience and plan their future careers. Program topics and activities include major exploration, career research, exploratory internships, mentorship and professional portfolio development.

As the world of work is increasingly dynamic and diverse, Career Services content encourages students to consider and understand their experiences and value as whole people, and invites them to make meaningful connections between their academic experience and professional goals. This holistic approach promotes necessary habits of adaptability, openness and reflection that allow students to thrive in the workplace both after graduation and throughout their lives.

Honors

Dana C. Elder, Director
department page (http://www.ewu.edu/academics/honors)
217 Hargreaves
509.359.2822

Dori Roberts (honors@ewu.edu), Advisor

Faculty

Dana C. Elder.

Undergraduate Program

The Honors Program cultivates excellence in undergraduate education by providing enhanced educational opportunities to superior students and special teaching opportunities to outstanding faculty. Honors courses and Honors activities seek to develop thorough knowledge and appreciation of the liberal arts and sciences; cultivate excellent writing, calculation and critical thinking skills; and inspire an attitude of self-responsibility, lifelong intellectual development and engagement with the world. Admission to Honors at Eastern is based entirely on demonstrated qualifications and potential.

Recognition as an Honors scholar is beneficial to students who apply for admission to graduate or professional schools; it also strengthens applications for employment. Participation in Honors gives academically accomplished students the opportunity to develop and apply their talents by providing closer interaction among faculty and peers. Honors students delve more deeply into their major disciplines and gain a broader perspective of their personal roles in society. Participation in the program shows that students are serious about learning; therefore, they receive special attention. Faculty members honor this commitment by providing special courses, individualized instruction, and special advisors.

University Honors has both general and departmental honors components.

General Honors emphasizes academic excellence in liberal arts curriculum areas. These freshman Honors Sequence courses (HONS 101, HONS 102, HONS 103, HONS 104) are interdisciplinary in nature and satisfy six of the General Education Core Requirements.

University Honors upper-division courses encourage Honors students to consider their own fields of study from the perspective of a broader cultural framework. These courses are offered for transfer students, sophomores, juniors and seniors.

Departmental Honors emphasizes excellence in one of the academic disciplines.

Financial Assistance

Qualified freshmen and transfer students have an excellent chance to receive one of several scholarships: the Killin, Academic Honors, Scholastic Honors four-year scholarships, or the two-year Transfer Honors Award. These awards are specifically for the academically accomplished. Contact Honors staff for additional information.

Other criteria include class rank, letters of recommendation from teachers or counselors, and personal interviews. Special consideration is shown to students who have participated in honors programs while in high school or community college. National Merit Semi-finalists or Finalists, National Achievement Semi-finalists or Finalists and National Achievement Commended students are automatically eligible. Students not admitted to the Honors Program upon initial enrollment may be accepted no later than the middle of their junior year. These students must have a college GPA ≥3.3.

To Apply

Incoming freshmen and transfer students with a GPA ≥3.6 and superior test scores complete the EWU General Scholarship Application. A letter of recommendation from an instructor or counselor and a brief statement of academic interest are sent directly to the Honors Program.

Degree Requirements for Honors Designations

Students fulfilling the following minimum degree requirements will be awarded the baccalaureate degree with honors ad valorem.

Required
Freshmen honors sequence courses (16 credits)
Total credits for honors ad valorem 16 credits

Students fulfilling the following minimum degree requirements will be awarded the baccalaureate degree with transfer honors ad valorem: Honors Seminar upper-division (4 credits) (taught fall only)
Students fulfilling the following minimum degree requirements will be awarded the baccalaureate degree with honors ad majorem.

Required
- Freshman honors sequence courses (16 credits)
- Honors upper-division courses (8 credits)

Total credits for honors ad majorem 24 credits

Students fulfilling the following minimum degree requirements will be awarded the baccalaureate degree with departmental honors ad majorem.

Required
- Departmental honors credits (12 credits)
- Honors upper-division courses (8 credits)

Total credits for departmental honors ad majorem 20 credits

Students fulfilling the following minimum degree requirements will be awarded the baccalaureate degree with honors ad maxima valorem.

Required
- Freshmen honors sequence courses (16 credits)
- Departmental honors credits (12 credits)
- Honors upper-division courses (12 credits)

Total credits for honors ad maxima valorem 40 credits

Integrative Studies

Chuck Lopez, Ed.D., Associate Vice Provost
Showalter Hall 117
509.359.2202

Undergraduate Certificate
Community Engagement Certificate (p. 93)

Community Engagement Certificate

Community Service Hours: 100 (50 per year). Up to 40 "service-learning" course hours may count toward this requirement.
- Attendance at program orientation retreat.
- Attendance at quarterly group reflection sessions.
- Amendments to requirements must be approved by Office of Community Engagement.

Pre-Professional

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
COLLEGE OF ARTS, LETTERS & EDUCATION

Departments, programs and degrees are listed on the navigation bar.
CALE home page (http://www.ewu.edu/cale)
Art

Greg duMonthier, Chair
department page (http://www.ewu.edu/cale/programs/art)
140 Art Bldg.
509.359.2494

Faculty

Undergraduate Degrees

Bachelor of Arts (BA)
• Art History (p. 95)
• Studio Art (p. 96)

Bachelor of Arts in Education (BAE)
• Visual Arts/Elementary (p. 98)
• Visual Arts/Secondary (p. 99)

Bachelor of Fine Arts (BFA)
• Studio Art (p. 97)
• Visual Communication Design (p. 100)

Undergraduate Minors
• Art (p. 96)
• Art/Elementary or Secondary (p. 96)

Undergraduate Programs

The Department of Art offers a curricular program founded on three major concerns: developing the highest levels of individual artistic performance and professional education, providing courses for all students which develop cultural understanding and aesthetic appreciation and functioning as a center of emphasis and resource for the visual arts in the cultural activities of both the university and the community at large.

The Department of Art’s unique and multifaceted Gallery Program provides cultural enrichment for both the university and the regional community. In addition to the main Art Gallery, the program sponsors public art lectures, visiting-artists’ workshops and cooperative exhibitions with northwest galleries and museums.

General Major and Minor Requirements for Art
All Art majors are expected to complete a core of fundamental courses in Studio Art and Art History relative to their specific degree program.

General Degree Completion Requirements for Art
All 400-level studio courses may be repeated three times for credit.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Program

The Art Department offers courses that may be included in an Interdisciplinary master’s degree and Art Department faculty may serve on committees for students whose Interdisciplinary program proposals are accepted through the process described elsewhere in this catalog.

Note: only programs that offer a graduate degree may be the primary discipline in a graduate interdisciplinary degree program. Art does not offer an MA.

The Art Department’s Participation in Interdisciplinary Masters Programs

First and foremost—all Interdisciplinary MA applicants must understand that the only terminal degree in Studio Art is the MFA. An MFA is required to teach studio art at levels beyond high school. A PhD is needed to teach Art History and Art Education. (See below)

Acceptance into Program

Interdisciplinary MA applicants must apply with a portfolio of work in the same manner as the BFA applicants.

If accepted, the Interdisciplinary MA candidates will participate in two quarters of twice-quarterly reviews, (i.e., one review by Art faculty and one review by outside professionals each quarter). These reviews are currently listed as ART 470.

During the MA candidate’s third and final quarter, the candidate will participate in a thesis exhibition and have an oral review by the thesis committee which must consist of at least one of their Art faculty.

Interdisciplinary MA History and Art

Interdisciplinary MA students in History and Art have a strong record of following the traditional trajectory of the MA preceding the PhD.

Interdisciplinary MA in Publishing, Creative Writing and Art

Art courses can constitute a minor discipline for this degree program based on the determination of the department chair only, with input from other faculty if necessary.

All faculty will participate on committees to work with MA candidates accepted into our program.

Art History Major, Bachelor of Arts (BA)

Students majoring in Art History will be expected to complete courses in methodology and to present a written thesis.

Notes:
• students majoring in Art History will be expected to complete courses in methodology and to present a written thesis;
• two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>or ART 307</td>
<td>3D DESIGN</td>
<td></td>
</tr>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>ART 303</td>
<td>DIGITAL ART I</td>
<td>5</td>
</tr>
<tr>
<td>ART 339</td>
<td>RESEARCH IN ART HISTORY</td>
<td>2</td>
</tr>
</tbody>
</table>
Art Minor

Choose courses from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ART 415</td>
<td>HISTORY OF ANCIENT ART</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
<td>HISTORY OF MEDIEVAL ART</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td></td>
</tr>
<tr>
<td>ART 422</td>
<td>HISTORY OF BAROQUE AND ROCOCO ART</td>
<td></td>
</tr>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td></td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td></td>
</tr>
</tbody>
</table>

Electives—choose additional Art History courses in consultation with department advisor.

Total Credits: 30

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ART 311</td>
<td>AFRICAN AND AFRICAN AMERICAN ART HISTORY</td>
<td></td>
</tr>
<tr>
<td>ART 415</td>
<td>HISTORY OF ANCIENT ART</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
<td>HISTORY OF MEDIEVAL ART</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td></td>
</tr>
<tr>
<td>ART 422</td>
<td>HISTORY OF BAROQUE AND ROCOCO ART</td>
<td></td>
</tr>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td></td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td></td>
</tr>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ART 415</td>
<td>HISTORY OF ANCIENT ART</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
<td>HISTORY OF MEDIEVAL ART</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td></td>
</tr>
<tr>
<td>ART 422</td>
<td>HISTORY OF BAROQUE AND ROCOCO ART</td>
<td></td>
</tr>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td></td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 62-63

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- interprets, defends and critically evaluates visual arts through oral and written discussions;
- knows and seeks their professional community;
- translates and produces independent research into quality written or visual formats;
- develops strong studio skills (in a variety of media);
- develops advanced level of knowledge and regarding the major styles/artists/movements within art history.

Art/Elementary or Secondary Minor

This minor satisfies the endorsement for preschool to grade 12.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>ART 325</td>
<td>CERAMICS</td>
<td>5</td>
</tr>
<tr>
<td>or ART 365</td>
<td>SCULPTURE</td>
<td></td>
</tr>
<tr>
<td>ART 355</td>
<td>PAINTING</td>
<td>5</td>
</tr>
<tr>
<td>or ART 356</td>
<td>WATERCOLOR</td>
<td></td>
</tr>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>or ART 393</td>
<td>ART IN THE SECONDARY SCHOOL</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td>5</td>
</tr>
<tr>
<td>or ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 33

Studio Art Major, Bachelor of Arts (BA)

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>or ART 307</td>
<td>3D DESIGN</td>
<td></td>
</tr>
<tr>
<td>ART 155</td>
<td>BEGINNING PAINTING</td>
<td>5</td>
</tr>
<tr>
<td>or ART 355</td>
<td>PAINTING</td>
<td></td>
</tr>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>ART 303</td>
<td>DIGITAL ART I</td>
<td>5</td>
</tr>
<tr>
<td>ART 400</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>or ART 401</td>
<td>LIFE DRAWING</td>
<td></td>
</tr>
<tr>
<td>ART 490</td>
<td>SENIOR CAPSTONE</td>
<td>5</td>
</tr>
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</table>

Select two of the following courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ART 415</td>
<td>HISTORY OF ANCIENT ART</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
<td>HISTORY OF MEDIEVAL ART</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td></td>
</tr>
<tr>
<td>ART 422</td>
<td>HISTORY OF BAROQUE AND ROCOCO ART</td>
<td></td>
</tr>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td></td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td></td>
</tr>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ART 415</td>
<td>HISTORY OF ANCIENT ART</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
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<td></td>
</tr>
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<td>ART 422</td>
<td>HISTORY OF BAROQUE AND ROCOCO ART</td>
<td></td>
</tr>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td></td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td></td>
</tr>
</tbody>
</table>
Prior to declaring the BFA major, students must apply to the program by submitting a portfolio spring quarter of their junior year. Notification of acceptance is sent spring quarter. (Students need not be in the BFA to take any art class, with the exception of the senior year three-quarter class ART 470). This course requires previous acceptance into the BFA degree program. ART 470 senior courses are an intensive studio experience as well as engaging students in philosophical dialogues about the nature of being an artist and how to prepare for graduate studies (MFA).

Students have individual mid-term reviews with all art faculty as well as two end-of-quarter reviews with two professional artists from outside the department and the course instructor.

Students prepare work for and make a mailer for an end of year group exhibition in the main gallery or other space if needed.

Note: there is no foreign language requirement for BFA students.

Studio Art Major, Bachelor of Fine Arts (BFA)

The primary focus of the BFA is to give students who are committed to becoming contemporary artists an opportunity to immerse themselves in a much deeper studio experience and prepare a solid portfolio should they continue on to a MFA degree.
Photography
ART 304  ART OF PHOTOGRAPHY
ART 404  ART OF PHOTOGRAPHY *

Digital Art
ART 403  DIGITAL ART II *
ART 408  INTERMEDIA *

Drawing
ART 400  DRAWING *
ART 401  LIFE DRAWING *

Printmaking
ART 360  PRINTMAKING
ART 460  PRINTMAKING *

Sculpture
ART 365  SCULPTURE *
ART 465  SCULPTURE *

Electives—select additional art courses in consultation with department advisor. 22

Total Credits 115

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• interprets, defends and critically evaluates visual arts through oral and written discussions;
• knows and seeks their professional community;
• creates, contextualizes, defends and displays a cohesive body of work on a level appropriate for entry into graduate school and/or a professional art career;
• translates and produces independent research into quality written or visual formats;
• develops strong studio skills (in a variety of media) and a well-developed understanding of personal art making;
• develops advanced level of studio skills in at least on medium and intermediate level of studio skills and personal expression in at least one other area of concentration.

Visual Arts/Elementary Major, Bachelor of Arts in Education (BAE)

Students seeking certification in Art will be expected to demonstrate basic studio competencies prior to recommendation for admission to professional degree candidacy.

This major satisfies the endorsement for preschool to grade 12.

Notes:

• see the Education Department for prerequisites, core requirements and additional SLOs;
• the above major takes more than 12 quarters at 15–16 credits a quarter;
• ART 390 is listed in the Elementary Education Core and the major, the credits may only be counted once.

Required Elementary Education Core
30–hour multicultural education field requirement

Required ART Courses
ART 107  BASIC DESIGN 5
ART 155  BEGINNING PAINTING 5
or ART 355  PAINTING
ART 213  ART IN THE HUMANITIES 5
ART 300  DRAWING 5
ART 303  DIGITAL ART I 5
ART 325  CERAMICS 5
ART 390  ART IN THE ELEMENTARY SCHOOL (also listed in the major, the credits may only be counted once) 3
EDUC 200  ADMISSION TO TEACHER EDUCATION 7
& EDUC 303  and FOUNDATIONS OF ASSESSMENT
& EDUC 308  and FOUNDATIONS OF ELEMENTARY
CLASSROOM MANAGEMENT (these three must be taken)
EDUC 201  INTRODUCTION TO EDUCATION 3
EDUC 304  INTRODUCTION TO ELEMENTARY READING 3
EDUC 310  LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL 4
EDUC 338  LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently) 9
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 423  ELEMENTARY STUDENT TEACHING K-8 15
MATH 212  MATHEMATICS FOR ELEMENTARY TEACHERS II 5
MTED 390  METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS 5
MUSC 450  INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES 3
PHED 390  HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS 3
PSYC 304  EDUCATIONAL PSYCHOLOGY 5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION 4

Choose one of the following courses 5
ART 420  HISTORY RENAISSANCE ART
ART 423  ART OF THE 19TH CENTURY
ART 430  HISTORY OF MODERN ART

Electives—choose an additional Art course from the list of studio courses in consultation with a department advisor.

Digital Art/Photography
ART 307  3D DESIGN
ART 403  DIGITAL ART II

2D Painting/Drawing/Printing
ART 356  WATERCOLOR
ART 360  PRINTMAKING
ART 400  DRAWING
ART 401  LIFE DRAWING
ART 455  PAINTING
**ART 456**  WATERCOLOR
**ART 460**  PRINTMAKING

**3D Ceramics/Sculpture**
**ART 307**  3D DESIGN
**ART 365**  SCULPTURE
**ART 425**  ADVANCED CERAMICS

Total Credits  112

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

Note: see Education for additional SLOs.

- interprets, defends and critically evaluates visual arts through oral and written discussions [PESB 2.K];
- knows and seeks their professional community [PESB 6.C];
- translates visual art content into meaningful pedagogical practices [PESB 7.1];
- translates and produces independent research into quality written or visual formats [PESB 7.1];
- develops strong studio skills (in a variety of media) and a well-developed understanding of personal art making [PESB 2.1];
- develops advanced level of studio skills and personal expression in at least one area of concentration.

**Visual Arts/Secondary Major,**
**Bachelor of Arts in Education (BAE)**

Students seeking certification in Art will be expected to demonstrate basic studio competencies prior to recommendation for admission to professional degree candidacy.

This major satisfies the endorsement for preschool to grade 12.

Notes:

- see the Education Department for prerequisites, core requirements and additional SLOs;
- the above major takes more than 12 quarters at 15–16 credits a quarter;
- all BAE Visual Arts Secondary Education students will meet with an Art Department faculty mentor during their student teaching internship period.

**Required Secondary Education Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION &amp; FOUNDATIONS OF ASSESSMENT</td>
<td>7</td>
</tr>
<tr>
<td>&amp; EDUC 303</td>
<td>and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>&amp; EDUC 309</td>
<td>(these three courses must be taken concurrently)</td>
<td></td>
</tr>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits  113

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

Note: see Education for additional SLOs.

- interprets, defends and critically evaluates visual arts through oral and written discussions [PESB 2.K];
- knows and seeks their professional community [PESB 6.C];
- translates visual art content into meaningful pedagogical practices [PESB 7.1];

**Required ART Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>ART 155</td>
<td>BEGINNING PAINTING</td>
<td>5</td>
</tr>
<tr>
<td>or ART 355</td>
<td>PAINTING</td>
<td></td>
</tr>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>ART 303</td>
<td>DIGITAL ART I</td>
<td>5</td>
</tr>
<tr>
<td>ART 307</td>
<td>3D DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>or ART 365</td>
<td>SCULPTURE</td>
<td></td>
</tr>
<tr>
<td>ART 325</td>
<td>CERAMICS</td>
<td>5</td>
</tr>
<tr>
<td>ART 391</td>
<td>FOUNDATIONS OF ART EDUCATION</td>
<td>2</td>
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<tr>
<td>ART 393</td>
<td>ART IN THE SECONDARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>ART 400</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>or ART 401</td>
<td>LIFE DRAWING</td>
<td></td>
</tr>
<tr>
<td>ART 420</td>
<td>HISTORY RENAISSANCE ART</td>
<td>5</td>
</tr>
</tbody>
</table>

**Choose one of the following**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 423</td>
<td>ART OF THE 19TH CENTURY</td>
<td>5</td>
</tr>
<tr>
<td>ART 430</td>
<td>HISTORY OF MODERN ART</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td></td>
</tr>
</tbody>
</table>

**Electives—choose three courses from one of the following**

**Digital Art/Photography**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 304</td>
<td>ART OF PHOTOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>ART 403</td>
<td>DIGITAL ART II</td>
<td></td>
</tr>
<tr>
<td>ART 404</td>
<td>ART OF PHOTOGRAPHY (*)</td>
<td></td>
</tr>
</tbody>
</table>

**2D Painting/Drawing/Printing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 356</td>
<td>WATERCOLOR</td>
<td></td>
</tr>
<tr>
<td>ART 360</td>
<td>PRINTMAKING</td>
<td></td>
</tr>
<tr>
<td>ART 400</td>
<td>DRAWING (*)</td>
<td></td>
</tr>
<tr>
<td>ART 401</td>
<td>LIFE DRAWING (*)</td>
<td></td>
</tr>
<tr>
<td>ART 455</td>
<td>PAINTING (*)</td>
<td></td>
</tr>
<tr>
<td>ART 456</td>
<td>WATERCOLOR (*)</td>
<td></td>
</tr>
<tr>
<td>ART 460</td>
<td>PRINTMAKING (*)</td>
<td></td>
</tr>
</tbody>
</table>

**3D Ceramics/Sculpture**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 307</td>
<td>3D DESIGN</td>
<td></td>
</tr>
<tr>
<td>ART 365</td>
<td>SCULPTURE</td>
<td></td>
</tr>
<tr>
<td>ART 425</td>
<td>ADVANCED CERAMICS (*)</td>
<td></td>
</tr>
<tr>
<td>ART 465</td>
<td>SCULPTURE (*)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  113

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

Note: see Education for additional SLOs.

- interprets, defends and critically evaluates visual arts through oral and written discussions [PESB 2.K];
- knows and seeks their professional community [PESB 6.C];
- translates visual art content into meaningful pedagogical practices [PESB 7.1];
• translates and produces independent research into quality written or visual formats [PESB 7.1];
• develops strong studio skills (in a variety of media) and a well-developed understanding of personal art making [PESB 2.1];
• develops advanced level of studio skills and personal expression in at least one area of concentration.

Visual Communication Design, Bachelor of Fine Arts (BFA)

The Department of Engineering & Design and the Department of Art offer an intercollegiate Visual Communication Design program founded on four major concerns: developing the highest levels of individual creative performance and professional education; providing courses for all students which develop ability in both technical visual communications as well as important core skills in the area of fine art; giving students a greater cultural and historical understanding and aesthetic appreciation of the function of design in the arts and in the world around them; and functioning as dual centers of emphasis and resource for the visual arts, visual communication and technology in the cultural activities of both the university community and the community at large.

Both departments are committed to working together to give students access to current technologies in the area of visual communication design, as well as experience in developing the necessary visual skills provided by studio art areas such as drawing, painting and sculpture.

The program ends with a three quarter senior year intensive studio experience for the preparation of portfolios for job placement or graduate school application. This includes midterm faculty review of student work, quarterly outside professional review and a final exhibition as the completion of the student portfolio of work.

Prior to declaring the BFA major, students must apply to the program by submitting a portfolio and academic transcripts. Application is recommended at the end of the sophomore year to help ensure that appropriate junior year courses are selected. Students need not be in the BFA to take DESN or ART classes, with the exception of the senior year three quarter class DESN 471/ART 471. This course requires previous acceptance into the BFA degree program.

Notes:

• there is no foreign language requirement for BFA students;
• including university requirements, the above program requires a minimum of 180 credits or an average of 15 credits per quarter for a 12 quarter, four-year program. The 180 credits are based upon the following assumptions: Students will have satisfied university competencies (ENGL 101 and CPLA 100). If this is not true, then the student will have to complete up to six more credits of classes (See university competencies.);
• ART 213 fulfills EWU’s Fine Arts core requirement;
• TECH 393 fulfills EWU’s International Studies requirement;
• DESN 490 fulfills EWU’s senior capstone requirement.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>LIFE DRAWING</td>
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<td>TYPOGRAPHY</td>
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<td>DESN 259</td>
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<td>DESN 263</td>
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<td>DESN 363</td>
<td>VISUAL COMMUNICATION DESIGN 2</td>
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<td>DESN 366</td>
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<td>DESN 368</td>
<td>WEB DESIGN 1</td>
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<td>Studio Art Elective</td>
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</table>

Total Credits 113

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• have the ability to solve visual communication problems, including the skills of identification, research and information gathering, analysis and generation of alternative solutions;
• have the ability to draw on thoughts and ideas in relation to an art historical timeline, apply contemporary concepts in design to their own work and articulate and discuss art within our own culture and the art of other cultures;
• have basic skills to create a response to visual communication problems, including an understanding of the principles of visual organization/composition, information hierarchy, symbolic representation, typography, aesthetics and the construction of meaningful images;
• have an understanding of multimedia tools and technology, including their roles in the creation, reproduction and distribution of visual messages;
• be able to describe and respond to audiences and contexts that communication solutions must address, including recognition of the physical, cognitive and social human factors that shape design decisions;
• have an understanding of basic business practices, including the ability to organize design projects and to work productively as members of a team;
• create a cohesive body of work on a level appropriate to entry into both graduate schools and design professions and have the ability to defend their portfolio work both orally and in writing.
Education

Tara Haskins, Chair
department page (http://www.ewu.edu/cale/programs/education)
312 Williamson
509.359.2831

Department of Education Mission
The mission of the Department of Education is to prepare student-centered educators to be professionals, leaders, scholars and practitioners.

Washington Teacher Certification
The state of Washington issues two basic teaching certificates: The Residency Teaching Certificate and the Professional Teaching Certificate. Each certificate issued requires payment of a state fee.

The Residency Teaching Certificate
This Certificate is awarded upon completion of a baccalaureate degree and the Professional Education Program requirements. This teaching certificate allows the holder to teach in the state of Washington within the endorsement areas approved by the university. An endorsement is an authorization to teach a specific subject (or to perform a specific type of service) at particular grade level(s) and an indication of such will appear on the certificate.

The state of Washington requires teacher education candidates admitted to teacher preparation programs to pass the Washington Education Skills Test—Basic (WEST-B) or approved equivalent in order to receive a Residency Certificate. Additionally, candidates are required to pass the WEST-E or NES subject matter test to receive an endorsement for certification purposes. The teacher candidate must also provide evidence of good character and fitness, including a Washington State Patrol and FBI clearance.

Faculty

Undergraduate Degrees

Bachelor of Arts in Education (BAE)
• Early Childhood Education (p. 106)
• Elementary Education (p. 109)
• Literacy, Reading and Writing/Elementary or Secondary (p. 111)

Undergraduate Minors
• Early Childhood Education/Elementary (p. 107)
• Environmental Education (p. 110)
• Literacy, Reading and Writing Elementary or Secondary Minor (p. 110)

Teacher Certification/Add-on Endorsements
• Biology=General Science/Add-On Endorsement (p. 239)
• Chemistry=General Science/Add-On Endorsement (p. 246)
• Physics=General Science/Add-On Endorsement (p. 282)
• Business and Marketing Education/Secondary Major or Add-On Endorsement (p. 190)
• Earth and Space Science=Teacher Certification/Add-On Endorsement (p. 257)
• Education=Elementary Education/Add-on Endorsement (p. 109)
• English=English/Add-On Endorsement (p. 121)
• Environmental Education/Minor and Add-On Endorsement (p. 110)
• History=History/Add-On Endorsement (p. 321)
• Social Studies=Social Studies/Add-On Endorsement (p. 356)
• Special Education= Early Childhood Special Education/Add-On Endorsement (p. 169)
• Special Education/Add-On Endorsement (p. 169)

Additional Majors/Minors (p. 102)

Undergraduate Programs
Teaching is among the most challenging and personally rewarding of professions. The essential role of the professional educator is to bring together his/her knowledge of subject matter, instructional strategies and interpersonal skills to provide learning experiences for students.
In addition, the contemporary teacher must be able to individualize instruction, must be sensitive to developmental and socio-cultural issues involving the learner, make adjustments to instruction based on assessment and provide evidence of positive impact on student learning.

The EWU Department of Education offers a comprehensive Teacher Education program, culminating with a baccalaureate degree and a Residency Teaching Certificate, to candidates who wish to teach in either P-3, elementary or secondary school settings.
To obtain a Bachelor of Arts in Education degree, a candidate must satisfy the General Education Core Requirements (GECR), Professional Education Program core requirements as well as required courses in the major field of study at Eastern Washington University. Upon satisfying requirements for the baccalaureate degree, the candidate may be eligible to receive a Residency Teaching Certificate from the state of Washington, providing the candidate meets all certification requirements.
The final authority for approval of certification endorsements resides within the Washington Office of the Superintendent of Public Instruction and in the event certification requirements change, the candidate must adhere to the new requirements.

Eastern Washington University Education Department Conceptual Framework:
Eastern Washington University Mission Statement: EWU expands opportunities for personal transformation through excellence in learning
Department of Education Mission Statement: The mission of the Department of Education is to prepare student-centered educators to be professionals, leaders, scholars, and practitioners.

Professionals: Student-centered educators exhibit character and dispositions expected of professionals embarking on a life-long career. They relate well to diverse populations, communicate effectively, and hold themselves to high ethical standards.

Leaders: Student-centered educators think critically, mentor others, and encourage teacher voice as they work to create a learning atmosphere that reflects, collaborates, and advocates for the needs of the learning community.

Scholars: Student-centered educators know and apply current research to improve their instructional practices.

Practitioners: Student-centered educators reflect, collaborate, implement, integrate, transform, and build learning communities.

Statement of Assurance
EWU’s Department of Education assures that each candidate is able to apply the teaching strategies, the classroom management/school discipline methods and the measurement and evaluation process necessary for success as a first-year certificated teacher.

This assurance guarantees that the candidate has successfully completed EWU’s (Department of Education) Teacher Education Program, as approved by PESB. The assurance is contingent upon appropriate placement of the candidate within certification endorsement areas.

In the event the candidate displays a lack of competency in any of these pedagogical practices during the first year of teaching experience, EWU’s Department of Education will cooperate with the school district to assist the candidate in improving his/her performance. EWU services will be provided at no cost to the school district or to the candidate.

This assistance will be offered by faculty members from the Department of Education and/or by appropriate faculty members from the Departments of Art, Biology, Business Education, Chemistry, English, French, Health, History, Mathematics, Music, Physical Education, Social Studies.

Grade Requirements
≥2.8 in each course for program prerequisites, professional education core, and overall grade point average (GPA). Specific content areas including majors and minors may have additional grade requirements. A minimum of a ≥2.0 is required in any course leading to an endorsement.

Teacher Education Program Requirements
**Step 1. Complete Prerequisites to EDUC 200**
An Application for Admission is required for the Teacher Education Program. Application deadlines are as follows: Fall Quarter—May 15; Winter Quarter—October 15; Spring Quarter—January 15; Summer Quarter—April 15. If the deadline falls on a Saturday, Sunday or EWU holiday applications will be accepted the following business day. Candidates seeking admission should consult with the Undergraduate Student Services Coordinator from the Education Department. All prerequisites must be completed prior to admission.

- A grade ≥2.8 in all prerequisite courses is required.
- GPA Requirement: a minimum ≥2.8 GPA.
- Pass Washington Educator Skills Test-Basic (WEST-B): refer to N (http://www.west.nesinc.com)ECINC (http://catalog.ewu.edu/arts-letters-education/education/west.nesinc.com) for information on this Reading, Mathematics and Writing basic skills test. Satisfactory SAT or ACT scores may waive all or part of the WEST–B requirement. Please see an advisor in the education department.
- Speech Requirement: CMST 200 or CMST 201 (4) or an approved equivalent.
- English Requirement: ENGL 201 (5) or equivalent.
- Mathematics Requirement: MATH 211 is required for Elementary and P–3 Programs, MATH 107 or an approved equivalent is required for Secondary Program.

**Step 2. Major/Minor Endorsement Options**
Note: It is important to work with an advisor early in your program to help you plan your schedule.

P–3 Candidates must declare Early Childhood Education. The BAE in ECE is an endorsement.

**Major**
Early Childhood Education (p. 106)

**Special Education** (p. 168)

**Major**
Dual Endorsement Program In Special Education and Elementary Education (p. 168)

**Add-On Endorsements**
Early Childhood Special Education (p. 169)
Special Education (p. 169)

**Minors**
Early Childhood Special Education (p. 169)
Special Education (p. 169)

**Elementary**
Elementary teaching candidates must declare a major. Contact the academic major and minor department for advisement and signature of agreement for completion of requirements.

**Majors**
*These majors meet an endorsement.*

- *Middle Level Mathematics (p. 274)*
- *Middle Level Natural Science (p. 278)*
- *Early Childhood Education (p. 106)*
- *Elementary Education (p. 109)*

- **These majors meet a P–12 endorsement.**
- **Art (p. 98)**
- **French (p. 135)**
- **Literacy, Reading, and Writing (p. 111)**
- **Health/Fitness (p. 160)**
- **Music (p. 149)**
- **Spanish (p. 138)**

**These majors do not meet an endorsement**

**Mathematics**

**Social Studies**

**Minors**
*These minors meet an endorsement.*

Art
English as a Second Language (p. 125)
Environmental Education (p. 110)
French (p. 137)
German (p. 137)
Secondary
Secondary teaching candidates must declare a major. Contact the academic major and minor departments for advisement and signature of agreement for completion of requirements. Candidates are encouraged to complete more than one endorsement in order to increase their employability.

Majors (Endorsements)
- Art (p. 99)
- Biology (p. 238)
- Business and Marketing Education (p. 190)
- Chemistry (p. 245)
- Earth and Space Science (p. 256)
- English (p. 118)
- French (p. 135)
- Health/Fitness (p. 160)
- Literacy, Reading and Writing (p. 111)
- Mathematics (p. 276)
- Music (p. 149)
- Physics (p. 281)
- Social Studies (p. 355)
- Spanish (p. 138)

Minors (Endorsements)
- Art (p. 96)
- Biology (p. 239)
- Chemistry (p. 245)
- Earth and Space Science (p. 257)
- English (p. 121)
- English as a Second Language (p. 125)
- Environmental Education (p. 110)
- Mathematics Middle Level (p. 277)
- French (p. 137)
- German (p. 137)
- History (p. 320)
- Physics (p. 282)
- Theatre (p. 172)

Additional endorsements may be added to valid certificates. See the Certification Officer for more information.

Step 3 Professional Education CORE Requirements
- After the prerequisite courses have been met and an application for admission has been received, students will be eligible for consideration for EDUC 200.
- Formal admission to the Teacher Education Program is contingent upon passing EDUC 200.
- Certification Eligibility: each candidate will be asked to give evidence of good character and fitness including submission of fingerprints for WSP/FBI background check.
- Candidates will meet with major advisor to complete a program plan.

Elementary Education Required Core
There are science and social science courses that are strongly recommended for the Elementary Education candidate. See the general requirements section of this catalog. Please see an Education advisor for clarification.

30-hour multicultural education field requirement

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION</td>
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<td>&amp; EDUC 303</td>
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<td>&amp; EDUC 308</td>
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<td>INTRODUCTION TO ELEMENTARY READING</td>
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<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>EDUC 339</td>
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<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
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<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
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<td>PHED 390</td>
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<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
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<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
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Early Childhood Education Major
The BAE in Early Childhood Education prepares teacher candidates to teach preschool – third grade with a Washington State Teaching Certification. Teacher candidates must complete the Required Core (57 credits), Early Childhood Major (43 credits), and pass the ECE NES to satisfy the requirements for a Teaching Certificate in the state of Washington. A minimum overall GPA of ≥2.8 and no individual course grade <2.8 in all Early Childhood Major coursework as well as Education Program Core coursework are required. Candidates who wish to extend their P-3 Teacher Certification through grade 8 may do so by completing an additional 4 courses: EDUC 304, EDUC 308, MUSC 450, PSYC 304.

Required Courses in the Early Childhood Professional Sequence

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>EDUC 200</td>
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<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>EDUC 339</td>
<td>SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>MATH 212</td>
<td>STRUCTURE OF ELEMENTARY MATH II</td>
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<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
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<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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</tr>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
</tr>
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</table>
SPED 412 INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION 4

**Internship Coursework**

EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 423 ELEMENTARY STUDENT TEACHING K-8 15
EDUC 495A EDUCATION INTERNSHIP FOR EARLY CHILDHOOD EDUCATION 4
EDUC 498 SEMINAR 1

Total Credits 55

**Secondary Education Required Core**

30-hour multicultural education field requirement

EDUC 200 & EDUC 303 & EDUC 309 ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT 7
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT 4
EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Total Credits 43

**Step 4. BAE Program Completion**

**Student Teaching Prerequisites**

The student planning to student teach must have satisfied the application/admission steps and must have completed the following clearances verified in EDUC 420.

- three-fourths of the total credit hours in major
- all method course(s) in major must be completed
- candidates must have a minimum overall GPA ≥2.8
- no individual course grade of <2.8 in the professional education program core
- no individual course grade of <2.0 in any major or minor course leading toward an endorsement
- have current WSP/FBI Clearance
- must have completed program core
- must have passed the WEST-E/NES/ACTFL in primary area of endorsement(s) prior to student teaching
- must have attempted the WEST-E/NES/ACTFL in all areas of endorsement
- must have completed the multicultural experience requirement

**Application for Student Teaching**

During EDUC 420 the candidate must submit the Application for Professional Admissions and Student Teaching. With permission of the department the candidate must register for the student teaching course. The student teacher candidate who does not meet stated deadlines may not be eligible for placement.

**Student Teaching**

The purpose of student teaching is to provide the teacher candidate with direct teaching/learning experience in P–12 public schools. The candidate has the opportunity during this time to observe teachers, to plan and teach under the supervision of cooperating teachers, to participate in the total school program for a full quarter and demonstrate PESB approved program standards. Placement is contingent upon availability and acceptance by schools.

The teacher candidate is required to enroll in 15 credits of student teaching. These credits are to be earned in one quarter or in an approved alternative program. Typically the candidate is assigned full time to a P–12 public school. The student teaching assignment is considered a full student credit load and no additional credits may be earned during the quarter except by written consent by the Education Department. Student teaching may be completed within a 60-miles radius of EWU or Spokane or in selected public school districts throughout the state of Washington with which there is an existing partnership.

**Step 5. Certification Exit Evaluation**

An exit evaluation will be done by the certification officer to verify that all state certification and professional education program requirements have been met, including requirements for the Bachelor of Arts in Education degree.

**Evidence for Certification Includes**

- state of Washington Standard Knowledge and Skills
- state of Washington EdTPA
- Student Teaching Approved Professional Growth Plan
- current WSP/FBI clearance
- copy of graduation application form evidencing all requirements have been met
- Multicultural Verification Assessment Form

Note: Disclaimer, The final authority for approval of certification endorsements resides within the Washington Office of the Superintendent of Public Instruction and in the event certification requirements change, the candidate must adhere to the new requirements.

**Graduate Degrees**

**Graduate Certificate**

- Principal Certificate (p. 114)

**Master of Education in Education (M.Ed.)**

Options under M.Ed. in Education Degree

**Certification Required**

- Curriculum and Instruction Option (p. 105)
- Literacy Option (p. 110)

**Certification Optional**

- Adult Education Option (p. 105)
- Early Childhood Education Option (p. 107)
- Educational Foundations/Interdisciplinary Option (p. 108)
• Educational Leadership Option (p. 107)

Master in Teaching

• Master in Teaching (MIT): Secondary Teaching (5-12) (p. 113)
• Master in Elementary Teaching (MIT): Teaching (K-8) (p. 112)

All Options Include Common Core Requirements

Graduate Programs Contact
Vince Aleccia, Ed.D., Graduate Director
509.359.7024

Adult Education Option, Master of Education in Education (M.ED.)

Adult Education—certification optional: this program is developed to provide advanced opportunities for those persons seeking to work with adults in a variety of settings.

These settings include but are not limited to community colleges’ vocational programs, adult basic skills programs, in-service coordination for business and industry, and military training. It is anticipated that students will come from a variety of backgrounds, most having a bachelor’s degree with some additional work and some having master’s degrees in other areas.

Recommended prerequisite: PSYC 306.

No teaching certification required.

Required Common Core

Psychological Foundations
EDUC 522 TRANSFORMATION OF LEARNING AND TEACHING 4
or PSYC 515 ADVANCED EDUCATIONAL PSYCHOLOGY

Historical, Philosophical and Social Foundations of Education—choose two
EDUC 502 HISTORY OF AMERICAN EDUCATION 4
or EDUC 507 PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL
EDUC 505 CURRENT ISSUES IN EDUCATION 4
or EDUC 506 EDUCATIONAL SOCIOLOGY

Research and Applied Experience
EDUC 520 METHODS OF EDUCATIONAL RESEARCH 4
EDUC 600 THESIS 5
or EDUC 601 RESEARCH REPORT
EDUC 695 INTERNSHIP 4

Adult Education Area Specialization Courses
COIN 571 SURVEY POST-SECONDARY EDUCATION 4
COIN 572 STRATEGIES FOR TEACHING ADULTS 4
COIN 581 WORKSHOP IN COLLEGE TEACHING 3

Electives—support courses approved by advisor. 12

Total Credits 48

Student Learning Outcomes—students will

• demonstrate effective practice in the implementation of learning activities which include: knowledge of content area; problem solving; use of technology;
• opportunity for student choice; motivation; collaboration and respect for diversity in a student centered learning environment;
• demonstrate professional leadership in the field;
• design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Professional Education Standards Board (PESB) standards and certification requirements and other applicable professional standards;
• demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.

Curriculum and Instruction Option, Master of Education in Education (M.ED.)

Curriculum and Instruction—certification required: designed for certified teachers who wish to exercise leadership in school curriculum planning and development. Candidates can plan with an advisor to emphasize science education, social science education, working with at risk learners, etc. A copy of state teaching certificate must accompany application.

Core Requirements

Psychological Foundations
EDUC 522 TRANSFORMATION OF LEARNING AND TEACHING 4
or PSYC 515 ADVANCED EDUCATIONAL PSYCHOLOGY

Historical, Philosophical and Social Foundations of Education—choose two
EDUC 502 HISTORY OF AMERICAN EDUCATION 4
or EDUC 507 PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL
EDUC 505 CURRENT ISSUES IN EDUCATION 4
or EDUC 506 EDUCATIONAL SOCIOLOGY

Research and Applied Experience
EDUC 520 METHODS OF EDUCATIONAL RESEARCH 4
EDUC 600 THESIS 5
or EDUC 601 RESEARCH REPORT
EDUC 695 INTERNSHIP 4

Specialization and Support courses (23 credits minimum) 23
EDUC 531 ELEMENTARY SCHOOL CURRICULUM
or EDUC 532 SECONDARY SCHOOL CURRICULUM
EDUC 533 INSTRUCTIONAL SYSTEMS DEVELOPMENT
EDUC 538 MEDIA LITERACY FOR TEACHERS
EDUC 544 ADVANCED LITERACY METHODS ACROSS THE CURRICULUM
EDUC 564 SCHOOL LAW
EDUC 570 ELEMENTARY SCHOOL SCIENCE PROGRAMS
EDUC 574 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL
EDUC 576 ADVANCED LITERACY METHODS
EDUC 588 READINGS IN THE CURRICULUM

500/600 Level Courses e.g., content field, computers (Var)
Student Learning Outcomes—students will:

- demonstrate advanced research based knowledge and skills in curriculum and instruction in a selected area of emphasis including but not limited to early childhood education, elementary teaching, science education, social science education, at risk learners, middle school or gifted education.

Early Childhood Education Major, Bachelor of Arts in Education (BAE)

The BAE in Early Childhood Education plus a Teacher Education Program prepares students for a Washington State Teaching Certification. Completion of the ECE Major, Education Core (and successfully completing the ECE NES will satisfy the requirements for Teaching Certificate in the state of Washington.

BAE students must complete the Elementary Education Core or the P–3 Certification Core.

- Candidates who choose the P–3 core will be certified in grades K-3.
- Candidates who choose the Elementary core, will be certified in grades K–8.

P–3 Education Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 340</td>
<td>SOCIAL STUDIES METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>EDUC 342</td>
<td>SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>MATH 212</td>
<td>STRUCTURE OF ELEMENTARY MATH II</td>
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<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
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<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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<tr>
<td>SPED 412</td>
<td>INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION</td>
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Internship Coursework

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
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<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
<td>15</td>
</tr>
<tr>
<td>EDUC 451</td>
<td>APPLICATIONS I: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION</td>
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<tr>
<td>EDUC 464</td>
<td>APPLICATIONS II: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION</td>
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</table>

Required Early Childhood Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 390</td>
<td>FOUNDATIONS OF EARLY CHILDHOOD EDUCATION</td>
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Required Early Childhood Education Courses

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<tr>
<td>EDUC 410</td>
<td>METHODS I: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION</td>
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<tr>
<td>EDUC 430</td>
<td>ASSESSMENT IN EARLY CHILDHOOD EDUCATION</td>
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<tr>
<td>EDUC 450</td>
<td>METHODS II: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION</td>
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<td>EDUC 470</td>
<td>DIVERSITY IN EARLY CHILDHOOD EDUCATION</td>
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<tr>
<td>EDUC 475</td>
<td>PROMOTING SOCIAL COMPETENCE AND GUIDING BEHAVIOR IN EARLY CHILDHOOD SETTINGS</td>
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<tr>
<td>EDUC 479</td>
<td>EARLY LITERACY</td>
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<tr>
<td>EDUC 489</td>
<td>FAMILY-CENTERED PRACTICES IN EARLY CHILDHOOD</td>
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Capstone—an approved departmental or other Senior Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 495A</td>
<td>EDUCATION INTERNSHIP FOR EARLY CHILDHOOD EDUCATION</td>
<td>4</td>
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</table>

Total Credits

99
EDUC 479  EARLY LITERACY  3
EDUC 480  EDUCATING YOUNG CHILDREN WITH DIVERSE BACKGROUNDS  3
EDUC 487  EARLY LEARNING CONCEPTS  4
EDUC 493  EARLY CHILDHOOD EDUCATION ASSESSMENT  5
Capstone—an approved departmental or other Senior Capstone 4-5
Electives—choose one or department approved ECE elective course  4-5
PSYC 305  CHILD AND ADOLESCENT DEVELOPMENT
SOCI 483  SOCIOLOGY OF CHILDREN
Total Credits 114-116

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—teacher-candidates will

- use multiple instructional strategies to address individual student needs;
- integrate subjects across content areas;
- use a variety of assessments to monitor and improve instruction;
- create a safe, productive learning environment;
- plan and/or adapt curricula for diverse student needs;
- ensure that students can articulate learning targets and can monitor their own progress toward those targets;
- plan Standards-driven curricula to develop student capacity for problem-solving strategies in content areas;
- prepare responsible citizens for a diverse society;
- ensure cultural competence in teaching;
- integrate technology into their classrooms and/or planning;
- involve and collaborate with student families and community;
- utilize feedback and reflection to improve teaching practice;
- collaborate in and contribute to school improvement;
- demonstrate knowledge of responsibilities and policies related to the teaching profession.

Early Childhood Education Option,
Master of Education in Education (M.ED.)

Early Childhood Education—certification optional: designed for graduate candidates to provide advanced knowledge of early childhood education in both certificated and non-certificated settings.

Designed to provide candidates with or without certification advanced study in areas of Early Childhood Education.

Note: candidates may or may not be certified teachers.

Required Common Core

Psychological Foundations
EDUC 522  TRANSFORMATION OF LEARNING AND TEACHING  4
or PSYC 515  ADVANCED EDUCATIONAL PSYCHOLOGY

Historical, Philosophical and Social Foundations of Education—choose two
EDUC 502  HISTORY OF AMERICAN EDUCATION  4
or EDUC 507  PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL

EDUC 505  CURRENT ISSUES IN EDUCATION  4
or EDUC 506  EDUCATIONAL SOCIOLOGY
Research and Applied Experience
EDUC 520  METHODS OF EDUCATIONAL RESEARCH  4
EDUC 600  THESIS  5
or EDUC 601  RESEARCH REPORT
EDUC 695  INTERNSHIP  4

Early Childhood Education Area Specialization Courses
EDUC 580  CURRICULUM DESIGN IN EARLY CHILDHOOD EDUCATION  4
EDUC 598  SEMINAR IN EDUCATION  4

Supporting Courses—chosen with approval of program advisor from education in areas related to early childhood education.

Total Credits 48

Student Learning Outcomes—students will

- demonstrate advanced research based knowledge and skills in early childhood education;
- demonstrate effective practice in the implementation of learning activities which include: knowledge of content area; problem solving; use of technology;
- opportunity for student choice; motivation; collaboration and respect for diversity in a student centered learning environment;
- demonstrate professional leadership in the field;
- design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Professional Education Standards Board (PESB) standards and certification requirements and other applicable professional standards;
- demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.

Early Childhood Education/Elementary Minor

This minor does not meet a state of Washington endorsement.

Required Courses
EDUC 306  INTRODUCTION TO EARLY CHILDHOOD EDUCATION  1
EDUC 455  PERSPECTIVES OF EARLY CHILDHOOD EDUCATION  3
EDUC 456  INTEGRATED EARLY CHILDHOOD PRACTICES  5
EDUC 457  COLLABORATIVE REFLECTIVE TEACHING IN EARLY CHILDHOOD EDUCATION  3
EDUC 479  EARLY LITERACY  3
EDUC 480  EDUCATING YOUNG CHILDREN WITH DIVERSE BACKGROUNDS  3

Total Credits 18

Educational Leadership Option,
Master of Education in Education (M.ED.)
The Master of Education with an option in Educational Leadership is ideal for a teacher or other certified staff member who desires to prepare for the challenging, meaningful, and essential role of a school leader. The program is grounded in the principles of best practices and current research in educational leadership and management, preparing candidates to meet the diverse needs of a variety of learning environments. In addition, the M.Ed. program meets Washington state requirements for a school principal certificate if candidates satisfy the state’s experience requirement (three years) by program completion. Course work may begin any quarter, including summer. A copy of state teaching or educational staff associate certificate must accompany the graduate application.

Common Core

Psychological Foundation 4
EDUC 522 TRANSFORMATION OF LEARNING AND TEACHING
or PSYC 515 ADVANCED EDUCATIONAL PSYCHOLOGY

Historical, Philosophical and Social Foundation–choose two 8
EDUC 502 HISTORY OF AMERICAN EDUCATION (Historical, Philosophical and Social Foundation)
or EDUC 507 PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL

EDUC 505 CURRENT ISSUES IN EDUCATION
or EDUC 506 EDUCATIONAL SOCIOLOGY

Research and Applied Experience 13
EDUC 520 METHODS OF EDUCATIONAL RESEARCH
EDUC 600 THESIS
or EDUC 601 RESEARCH REPORT
EDUC 695 INTERNSHIP

Area Specialization
EDUC 551 SUPERVISION OF INSTRUCTION 4
EDUC 564 SCHOOL LAW 4
EDUC 565 LEADERSHIP FOR TODAY’S SCHOOLS 4
EDUC 566 LEADERSHIP IN SCHOOL-COMMUNITY RELATIONS 4
EDUC 567 SCHOOL ADMINISTRATION 4
EDUC 695 INTERNSHIP 3

Total Credits 48

Support Courses–choose with advisor from related disciplines 15-18

Total Courses 48-51

Student Learning Outcomes—students will
- demonstrate advanced research-based knowledge and skills in curriculum and instruction in a selected area of emphasis;
- demonstrate effective practice in the implementation of learning activities which include: knowledge of content area; problem solving; use of technology;
- opportunity for student choice; motivation; collaboration and respect for diversity in a student centered learning environment;
- demonstrate professional leadership in the field;
- design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Professional Education Standards Board (PESB) standards and certification requirements and other applicable professional standards;
- demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.
Elementary Education Major,
Bachelor of Arts in Education (BAE)

The Elementary Education major prepares students for certification as Elementary Education teachers in the state of Washington.

This major satisfies the endorsement for Kindergarten through grade 8.

Note: There are science and social science courses that are strongly recommended for the Elementary Education candidate. See the general requirements section of this catalog. Please see an Education advisor for clarification.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 200 &amp; EDUC 303 &amp; EDUC 308</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these three must be taken concurrently)</td>
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<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 304</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 338 &amp; EDUC 340 &amp; EDUC 342</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (these three must be taken concurrently)</td>
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<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
<td>15</td>
</tr>
<tr>
<td>MATH 211</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
<td>5</td>
</tr>
<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
<td>3</td>
</tr>
<tr>
<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
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<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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Required Elementary Education Courses

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<tr>
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<tr>
<td>EDUC 325</td>
<td>INEQUALITIES AND IMPACTS ON EDUCATIONAL EQUITY</td>
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<tr>
<td>EDUC 411</td>
<td>LITERACY FOR LINGUISTICALLY AND CULTURALLY DIVERSE LEARNERS</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 462</td>
<td>INSTRUCTIONAL MEDIA AND TECHNOLOGY</td>
<td>3</td>
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<tr>
<td>EDUC 490</td>
<td>LITERACY MAJOR CAPSTONE (A departmental approved capstone may be substituted.)</td>
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</tr>
<tr>
<td>or EDUC 490A</td>
<td>NATURAL RESOURCES</td>
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</table>

Total Credits: 89

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes

Teacher-candidates will:

- use multiple instructional strategies to address individual student needs;
- integrate subjects across content areas;
- use a variety of assessments to monitor and improve instruction;
- create a safe, productive learning environment;
- plan and/or adapt curricula for diverse student needs;
- ensure that students can articulate learning targets and can monitor their own progress toward those targets;
- plan Standards-driven curricula to develop student capacity for problem solving strategies in content areas;
- prepare responsible citizens for a diverse society;
- ensure cultural competence in teaching;
- integrate technology into their classrooms and/or planning;
- involve and collaborate with student families and community;
- utilize feedback and reflection to improve teaching practice;
- collaborate in and contribute to school improvement;
- demonstrate knowledge of responsibilities and policies related to the teaching profession.

Elementary Education/Add-on Endorsement

This add-on satisfies the endorsement for Kindergarten to grade 8.

Notes:

- must have a current Washington State Patrol form;
- for candidates who currently possess a Washington State Teaching Certificate;
- see Williamson Hall 310 before registering for these courses.

Required Courses

<table>
<thead>
<tr>
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<td>EDUC 304</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
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<tr>
<td>EDUC 308</td>
<td>FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT</td>
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<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>MATH 211</td>
<td>STRUCTURE OF ELEMENTARY MATH I</td>
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<td>MATH 212</td>
<td>STRUCTURE OF ELEMENTARY MATH II</td>
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<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
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<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
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<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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</tr>
<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits: 48
There are science and social science courses that are strongly recommended, but not required. Content from these courses will appear on the NES.¹

Select one of the following:

- BIOL 115 INVESTIGATING BIOLOGY ¹
- BIOL 100 INTRODUCTION TO BIOLOGY
- an approved life science class with a lab

- GEOG 101 FUNDAMENTALS OF HUMAN GEOGRAPHY ¹
- GEOG 230 WORLD REGIONAL GEOGRAPHY

Select one of the following:

- GEOG/GEOL 115 INVESTIGATING EARTH SCIENCE ¹
- an approved research science class with a lab

- HIST 104 EAST ASIA: TRADITION AND TRANSFORMATION ¹
- HIST 106 WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT

- HIST 110 AMERICAN EXPERIENCE: A SURVEY ¹

Select one of the following:

- PHYS 115 INVESTIGATING PHYSICAL SCIENCE ¹
- an approved physical science class with a lab

¹ Content from the strongly recommended science and social science courses will appear on the WEST E.

Environmental Education/Elementary Minor and Middle Level Endorsement

This minor does meet a state of Washington endorsement.

Required Foundational Course
ENVS 100 INTRODUCTION TO ENVIRONMENTAL SCIENCE 5

Required Courses
- BIOL 320 THE HUMAN PROSPECT 5
- or HUMN 320 THE HUMAN PROSPECT
- or PHIL 447 ENVIRONMENTAL ETHICS
- EDUC 440 SEMINAR IN ENVIRONMENTAL EDUCATION AND SUSTAINABILITY 2
- EDUC 490A NATURAL RESOURCES 4
- GEOL 380 WORLD RESOURCES AND POPULATION 5
- TECH 454 ENVIRONMENTAL ENGINEERING 4

Total Credits 25

Literacy Option, Master of Education in Education (M.ED.)

Literacy—certification required: designed for classroom and reading teachers as they work toward an understanding of the role that literacy plays across the curriculum and over time. The program explores research and processes for teaching literacy in K–12 educational settings.

A copy of state teaching certificate must accompany the graduate application.

Required Common Core
Psychological Foundations

EDUC 522 TRANSFORMATION OF LEARNING AND TEACHING 4
or PSYC 515 ADVANCED EDUCATIONAL PSYCHOLOGY

Historical, Philosophical and Social Foundations of Education—choose two

EDUC 502 HISTORY OF AMERICAN EDUCATION 4
or EDUC 507 PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL

EDUC 505 CURRENT ISSUES IN EDUCATION 4
or EDUC 506 EDUCATIONAL SOCIOLOGY

Research and Applied Experience

EDUC 520 METHODS OF EDUCATIONAL RESEARCH 4
EDUC 600 THESIS 5
or EDUC 601 RESEARCH REPORT
EDUC 695 INTERNSHIP 4

Literacy Area Specialization

EDUC 542 LITERATURE STUDY IN THE ELEMENTARY AND MIDDLE SCHOOL 4
EDUC 544 ADVANCED READING METHODS ACROSS THE CURRICULUM 4
EDUC 560 READING INQUIRY 4
EDUC 576 ADVANCED LITERACY METHODS 4
EDUC 590 CRITICAL AND SOCIAL LITERACIES 4
EDUC 591 INSTRUCTIONAL FOUNDATIONS AND INTERVENTIONS FOR LITERACY DIFFICULTIES 4

Total Credits 49

Student Learning Outcomes—students will

• demonstrate effective practice in the implementation of learning activities which include: knowledge of content area; problem solving; use of technology; opportunity for student choice;
• motivation; collaboration and respect for diversity in a student centered learning environment;
• demonstrate professional leadership in the field;
• design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Professional Education Standards Board (PESB) standards and certification requirements and other applicable professional standards;
• demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.

Literacy, Reading and Writing Elementary or Secondary, Minor

This minor does not meet a state of Washington endorsement.

Required Courses
EDUC 305 CHILDREN’S LITERATURE STUDY AND USE 4
EDUC 320 ASSESSING AND DIFFERENTIATING LITERACY INSTRUCTION 4
EDUC 411 LITERACY FOR LINGUISTICALLY AND CULTURALLY DIVERSE LEARNERS 4
Literacy, Reading and Writing/Elementary or Secondary Major, Bachelor of Arts in Education (BAE)

Students can choose either the Elementary or the Secondary Core with the Literacy, Reading and Writing Major.

The BAE in Literacy, Reading and Writing prepares teacher candidates to teach in grades P–12 in all aspects of literacy. Candidates completing a major in Literacy, Reading and Writing will demonstrate proficiency in the Reading Endorsement competencies through the state of Washington.

This major satisfies the endorsement for preschool to grade 12.

Required Elementary Education Core
30–hour multicultural education field requirement
ART 390 ART IN THE ELEMENTARY SCHOOL 3
EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 308 and FOUNDATIONS OF ELEMENTARY
CLASSROOM MANAGEMENT (these three courses
must be taken concurrently)
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 304 INTRODUCTION TO ELEMENTARY READING 3
EDUC 310 LITERACY METHODS, MANAGEMENT AND
ASSESSMENT IN THE ELEMENTARY SCHOOL 4
EDUC 338 LANGUAGE ARTS METHODS, MANAGEMENT AND
EDUC 339 and SOCIAL STUDIES AND SCIENCE METHODS,
and ASSESSMENT IN THE ELEMENTARY SCHOOL
(must be taken concurrently)
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 423 ELEMENTARY STUDENT TEACHING K-8 15
MATH 212 MATHEMATICS FOR ELEMENTARY TEACHERS II 5
MTED 390 METHODS OF TEACHING ELEMENTARY
MATHEMATICS 5
MUSC 450 INTEGRATING MUSIC INTO ELEMENTARY
CLASSROOM COURSES 3
PHED 390 HEALTH AND PHYSICAL EDUCATION IN THE
ELEMENTARY SCHOOLS 3
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Literacy, Reading and Writing Courses
EDUC 305 CHILDREN’S LITERATURE STUDY AND USE 4
EDUC 320 ASSESSING AND DIFFERENTIATING LITERACY
INSTRUCTION 4
EDUC 401 YOUNG ADULT LITERATURE STUDY AND USE 4
EDUC 411 LITERACY FOR LINGUISTICALLY AND
CULTURALLY DIVERSE LEARNERS 4
EDUC 416 WRITING PROCESS ACROSS THE CURRICULUM 4

Capstone
Note: MTED 390 is a prerequisite for EDUC 494.
EDUC 490 & EDUC 494 LITERACY MAJOR CAPSTONE 11

Electives—choose one
EDUC 323 A GLOBAL VIEW THROUGH CHILDREN’S
or ENGL 323 LITERATURE
EDUC 462 INSTRUCTIONAL MEDIA AND TECHNOLOGY
EDUC 463 PRODUCTION OF INSTRUCTIONAL MATERIALS
EDUC 479 EARLY LITERACY
EDUC 490A NATURAL RESOURCES
ENGL 360 LANGUAGE STRUCTURE AND USE
THTR 326 CREATIVE DRAMATICS

Total Credits 108-110

Required Secondary Education Core
30–hour multicultural education field requirement
EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 309 and FOUNDATIONS OF SECONDARY CLASSROOM
MANAGEMENT (these three courses must be
taken concurrently)
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT,
ASSESSMENT 4
EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND
ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Literacy, Reading and Writing Secondary Courses
EDUC 304 INTRODUCTION TO ELEMENTARY READING 3
EDUC 305 CHILDREN’S LITERATURE STUDY AND USE 4
EDUC 310 LITERACY METHODS, MANAGEMENT AND
ASSESSMENT IN THE ELEMENTARY SCHOOL 4
EDUC 320 ASSESSING AND DIFFERENTIATING LITERACY
INSTRUCTION 4
EDUC 401 YOUNG ADULT LITERATURE STUDY AND USE 4
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDUC 411</td>
<td>LITERACY FOR LINGUISTICALLY AND CULTURALLY DIVERSE LEARNERS</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 416</td>
<td>WRITING PROCESS ACROSS THE CURRICULUM</td>
<td>4</td>
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</table>

**Capstone**

Note: MTED 390 is a prerequisite for EDUC 494.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 490</td>
<td>LITERACY MAJOR CAPSTONE and LITERACY SEMINAR AND PRACTICUM (must be taken concurrently)</td>
<td>11</td>
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<tr>
<td>EDUC 494</td>
<td>LITERACY MAJOR CAPSTONE and LITERACY SEMINAR AND PRACTICUM (must be taken concurrently)</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
<td>4</td>
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</tbody>
</table>

**Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 323</td>
<td>A GLOBAL VIEW THROUGH CHILDREN’S LITERATURE</td>
<td>3-5</td>
</tr>
<tr>
<td>or ENGL 323</td>
<td>A GLOBAL VIEW THROUGH CHILDREN’S LITERATURE</td>
<td></td>
</tr>
<tr>
<td>EDUC 462</td>
<td>INSTRUCTIONAL MEDIA AND TECHNOLOGY</td>
<td></td>
</tr>
<tr>
<td>EDUC 463</td>
<td>PRODUCTION OF INSTRUCTIONAL MATERIALS</td>
<td></td>
</tr>
<tr>
<td>EDUC 479</td>
<td>EARLY LITERACY</td>
<td></td>
</tr>
<tr>
<td>EDUC 490A</td>
<td>NATURAL RESOURCES</td>
<td></td>
</tr>
<tr>
<td>ENGL 360</td>
<td>LANGUAGE STRUCTURE AND USE</td>
<td></td>
</tr>
<tr>
<td>THTR 326</td>
<td>CREATIVE DRAMATICS</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 88-90

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—teacher-candidates will**

- use multiple instructional strategies to address individual student needs;
- integrate subjects across content areas;
- use a variety of assessments to monitor and improve instruction;
- create a safe, productive learning environment;
- plan and/or adapt curricula for diverse student needs;
- ensure that students can articulate learning targets and can monitor their own progress toward those targets;
- plan Standards-driven curricula to develop student capacity for problem-solving strategies in content areas;
- prepare responsible citizens for a diverse society;
- ensure cultural competence in teaching;
- integrate technology into their classrooms and/or planning;
- involve and collaborate with student families and community;
- utilize feedback and reflection to improve teaching practice;
- collaborate in and contribute to school improvement;
- demonstrate knowledge of responsibilities and policies related to the teaching profession.

**Master in Elementary Teaching (MIT): Teaching (K–8), Master of Education in Education (M.ED.)**

MIT Elementary Teaching (K–8)—earn certification + M.Ed.: a program designed for those candidates who desire an MEd degree and a Washington residency teaching certificate for teaching in the elementary grades.

This program is available to candidates who hold a bachelor’s degree in an area other than education interested in receiving both a MEd degree and a residency teaching certificate for teaching in the elementary grades.

**Prerequisites for this program are**

- Introductory speech course (CMST 200, or an approved equivalent).
- Passing of MATH 211 of equivalent.
- Passing of the WEST-B (Washington Educators Skills Test-Basic).
- Contact NESINC (http://www.west.nesinc.org) for test information.
  
Satisfactory SAT or ACT scores may waive all or part of the WEST–B requirement. Please see an advisor in the education department.

**Highly recommended**

- Three natural science courses (BIOL 115 or PHYS 115, GEOG 115/GEOL 115) and three social studies courses (HIST 110, HIST 104 or HIST 106, GEOG 101 or GEOG 230).
- Elementary Teaching with Certification candidates go through a pre-approval interview process and complete a year-long internship in an elementary school.
- All candidates for certification must pass an elementary education WEST E test to receive an endorsement for certification purposes.

**Additional courses must be completed for certification:**

| ART 390, EDUC 308, EDUC 508, MUSC 450, PHED 390, SPED 363 |

**Required Common Core**

**Psychological Foundations**

| EDUC 522 | TRANSFORMATION OF LEARNING AND TEACHING | 4 |
| PSYC 515 | ADVANCED EDUCATIONAL PSYCHOLOGY          |   |

**Historical, Philosophical and Social Foundations of Education—choose two**

| EDUC 502 | HISTORY OF AMERICAN EDUCATION | 4 |
| or EDUC 507 | PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL |   |
| EDUC 505 | CURRENT ISSUES IN EDUCATION | 4 |
| or EDUC 506 | EDUCATIONAL SOCIOLOGY |   |

**Research and Applied Experience**

| EDUC 520 | METHODS OF EDUCATIONAL RESEARCH | 4 |
| EDUC 600 | THESIS | 5 |
| or EDUC 601 | RESEARCH REPORT |   |
| EDUC 695 | INTERNSHIP | 4 |

**Elementary Teaching Area Specialization**

| EDUC 478 | SCIENCE IN THE ELEMENTARY SCHOOL | 4 |
| EDUC 510 | CURRICULUM AND ASSESSMENT | 4 |
| EDUC 538 | MEDIA LITERACY FOR TEACHERS | 4 |
| EDUC 563 | SCHOOL LAW (MIT) | 2 |
| EDUC 574 | SOCIAL STUDIES IN THE ELEMENTARY SCHOOL | 3 |
| EDUC 576 | ADVANCED LITERACY METHODS | 4 |
| EDUC 695 | INTERNSHIP | 11 |
| MTED 590 | MATH METHODS FOR ELEMENTARY TEACHERS | 5 |

**Total Credits** 62

**Student Learning Outcomes—students will**
• demonstrate required WAC knowledge and skills and meet all SPI and EWU Department of Education professional education program requirements including a yearlong internship in K–8 schools, which are necessary to qualify for a Washington residency teaching certificate in teaching in K–8 grades.

Master in Teaching (MIT): Secondary Teaching (5–12), Master of Education in Education (M.ED.)

MIT Secondary Teaching (5–12)–earn certification + M.Ed.: a program designed for those candidates who desire an MEd degree and a Washington residency teaching certificate for the middle school, junior high and high school.

This program is available to candidates who hold a bachelor’s degree in an area other than education, did not previously take teaching certification coursework and are interested in receiving both an MEd degree and a residency teaching certificate for teaching in the middle school, junior high and high school. Candidates for this program must have an endorsable teaching major that has been approved by an Eastern Washington University academic department. Effective 9/1/09 all candidates for certification must pass a WEST-E subject matter test to receive an endorsement for certification purposes.

Prerequisites for this program are

• Introductory speech course (CMST 200, or an approved equivalent).
• At least 90% of the endorsable teaching major must be completed.
• Successful completion of the WEST-B (Washington Educators Skills Test-Basic). Contact NESINC (http://www.west.nesinc.org) for test information.
• Secondary Teaching candidates go through a pre-approval interview process and complete a year-long internship in a middle or secondary school. Satisfactory SAT or ACT scores may waive all or part of the WEST–B requirement. Please see an advisor in the education department.

Additional courses listed below must be completed for certification

• EDUC 309 Foundations of Secondary Classroom Management (3)
• EDUC 341 Secondary Strategies, Management, Assessment (4)
• EDUC 413 Content Area Literacy, Management Assessment for Secondary Education Candidates (4)
• SPED 363 Introduction to Special Education (4)
• Secondary Methods Class from Major Department (3–5)

Required Common Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 520</td>
<td>METHODS OF EDUCATIONAL RESEARCH</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 600</td>
<td>THESIS</td>
<td>5</td>
</tr>
<tr>
<td>or EDUC 601</td>
<td>RESEARCH REPORT</td>
<td></td>
</tr>
<tr>
<td>EDUC 695</td>
<td>INTERNSHIP</td>
<td>4</td>
</tr>
</tbody>
</table>

Secondary Teaching Area Specialization

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 417/517</td>
<td>CULTURE OF MIDDLE SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 510</td>
<td>CURRICULUM AND ASSESSMENT</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 538</td>
<td>MEDIA LITERACY FOR TEACHERS</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 563</td>
<td>SCHOOL LAW (MIT)</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 596</td>
<td>EXPERIMENTAL COURSE (Beyond Culture of Poverty)</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 596</td>
<td>EXPERIMENTAL COURSE (Building Learning Community)</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 695</td>
<td>INTERNSHIP</td>
<td>11</td>
</tr>
</tbody>
</table>

Total Credits 53

Student Learning Outcomes—students will

• demonstrate required WAC knowledge and skills and meet all SPI and EWU Department of Education professional education program requirements including a year-long internship in K–12 schools which are necessary to qualify for a Washington residency teaching certificate in middle school, junior high and high school.

Required Common Core

Psychological Foundations

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>EDUC 520</td>
<td>METHODS OF EDUCATIONAL RESEARCH</td>
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Secondary Teaching Area Specialization

<table>
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<tbody>
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<td>EXPERIMENTAL COURSE (Building Learning Community)</td>
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</tr>
<tr>
<td>EDUC 695</td>
<td>INTERNSHIP</td>
<td>11</td>
</tr>
</tbody>
</table>

Total Credits 53

Student Learning Outcomes—students will

• demonstrate required WAC knowledge and skills and meet all SPI and EWU Department of Education professional education program requirements including a year-long internship in K–12 schools which are necessary to qualify for a Washington residency teaching certificate in middle school, junior high and high school.
Principal Graduate Certificate

This graduate-level certificate program is designed for teachers or other certified staff members who have already completed a master degree in an education-related field and want to pursue a career in educational leadership. Requirements for principal certification in the state of Washington include a teaching certificate or an educational staff associate certificate and at least three years of qualifying experience. Candidates complete five prerequisite courses addressing all aspects of school leadership and a 540-hour internship. Course work may begin any quarter, including summer. All courses must be completed prior to the internship. The internship begins each August and runs for the entire school year.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 551</td>
<td>SUPERVISION OF INSTRUCTION</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 564</td>
<td>SCHOOL LAW</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 565</td>
<td>LEADERSHIP FOR TODAY'S SCHOOLS</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 566</td>
<td>LEADERSHIP IN SCHOOL-COMMUNITY RELATIONS</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 567</td>
<td>SCHOOL ADMINISTRATION</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 695</td>
<td>INTERNSHIP</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits 32

- understand and prepare for the educational, social, political, economic, and cultural context within which school leaders work;
- demonstrate the competency-based knowledge and skills required for effectively working in leadership roles in preK-12 educational settings in compliance with Washington state standards and program requirements.
English
Logan Greene, Chair
department page (http://www.ewu.edu/cale/programs/english)
203 Patterson Hall
509.359.2400

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
• English - Creative Writing Option (p. 118)
• English - Literary Studies Option (p. 119)
• Technical Communication (p. 122)

Bachelor of Arts in Education (BAE)
• English Education-Secondary (p. 118)

Undergraduate Minors
• English (p. 121)
• Technical Communication (p. 123)

Teacher Certification/Add-on Endorsements
• English/Secondary Minor or English/Add-on Endorsement (p. 121)

Undergraduate Programs
The study of English offers a variety of exciting degree and career choices. At the heart of our programs is a passion for critically, creatively, and professionally understanding and using the English language. The literature option emphasizes the understanding of great literary works and the writing of analytical essays. It develops and refines speaking and writing skills through critical examinations of literary text. The creative writing option emphasizes artistic expression. It builds the skills needed to produce imaginative and inspired, publishable poetry, fiction, and creative non-fiction. The English education major focuses on preparing effective, informed, student-centered teachers of English. It develops skills for instructing and engaging students in English language arts at the elementary and secondary levels. The technical communication major prepares students for professional careers as technical writers. It builds skills in creating, writing, and designing information to support products, organizations, and people in a technology rich society.

In addition to its major degree programs, the Department of English offers undergraduate minor and endorsement programs for those with majors other than English who wish to enrich and expand their studies. Minors in literary studies, English education, and technical communication offer opportunities for intellectual exploration and for enhancing future career choices and success. The department also offers courses as part of the General Education Core Requirements. Courses in composition (required of all students), in literature, and the humanities contribute to a foundation in the liberal arts designed to help students appreciate and better understand cultural and social issues. In addition to its undergraduate majors, the Department of English also offers a range of options for studies at the graduate level for those who seek greater intellectual challenges or academic careers.

Traditional and Non-Traditional Career Paths for English Majors
For the major, the curricula in English are specifically designed to help prepare students in the following fields: creative writing; technical communication; education; and advanced studies in language and literature. In addition to professional careers in education and technical communication, the discipline of English is one of the most recommended pre-professional majors: the development of verbal skills, especially written expression, is of great importance to students planning graduate work in government, business, law or librarianship.

Students with general career goals already in mind should contact the director or co-director of the program in which they may concentrate. This contact should be made as soon as possible to develop a plan of study best suited to the student's individual interests and needs.

Students who are unsure of their career goals are invited to discuss their interests with the chair or any other Department of English faculty member.

Programs closely related to English include the Humanities, Journalism, Linguistics, and Religious Studies. These programs, as well as their degree and course offerings, are listed individually in this catalog.

Special Recognition of Outstanding English Majors
Two of the university's most prestigious academic scholarships are offered by the Department of English. The Tieje and Kleiner scholarships are awarded to English majors at the end of their junior years for use in their senior years and represent a major portion of a student's yearly expenses. Outstanding students are nominated each spring quarter by English department faculty.

General Admissions Requirements for English
ENGL 201, or equivalent satisfaction of university proficiencies in writing, is a prerequisite for all 300- and 400-level English courses.

Admission into a specific major program requires the completion of a set of departmental pre-major requirements. Students intending to major in any English program must complete the appropriate pre-major before enrolling in any 300- or 400-level English course except with the approval of the chair; otherwise, students are subject to disenrollment.

Common Departmental Pre-Major
Complete ENGL 201, or equivalent, with a grade ≥2.5. English majors are encouraged to register for one of the following to fulfill humanities list one: HUMN 210 and HUMN 211.

Specific programs may require a writing sample or an additional course in their pre-major beyond the common departmental pre-major requirements given above.

Pre-Major Admission Procedure for English
Students intending to major in English should contact the department chair or a program director for an initial interview and to fill out the
major declaration form. Students then meet with a faculty advisor of the program they wish to enter.

**Foreign Language Requirements for English**
Two years of a single foreign language in high school or one year of a single foreign language at the college level is required for graduation with a BA major in Creative Writing, Literary Studies or Technical Communications.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

**Graduate Degrees**

**Master of Arts (MA)**
- Emphasis in Literature (p. 119)
- Emphasis in Rhetoric and Technical Communication (p. 120)
- Emphasis in Teaching English as a Second Language (p. 120)

**Master of Fine Arts (MFA)**
- Creative Writing (p. 117)

**Graduate Certificates**
- Teaching of Literature and Post-Master’s Certification in the Teaching of Literature (p. 121)
- Teaching of Writing and Post-Master’s Certification in the Teaching of Writing (p. 122)

**Graduate Programs**
This degree program prepares students for careers as professionals and post-secondary educators as well as for further study in doctoral programs. Students complete core courses that focus on research, writing, and professional preparation (foundational courses for a certificate in the teaching of writing). In addition, students complete one of the program’s three professional emphases:

- Literature—Judy Logan
  Rhetoric and Technical Communication—Teena Carnegie
  Teaching English as a Second Language—Lavona Reeves

The literature emphasis provides students with further exposure to a wide variety of literary works and allows for more in-depth study, analysis, and application of a range of critical perspectives. Students conduct original research, determine the value of a wide spectrum of sources, both print and electronic, and sharpen their writing and editing skills. Students engage intellectually in the complex historical and cultural issues that contribute to a text’s production, and synthesize ideas and critical positions in researched essays and seminar presentations. A thesis and a comprehensive examination are a part of the program, and students may intern in teaching both literature and composition.

The RTC emphasis provides students with theoretical and applied knowledge in academic, professional and technical discourses. Students explore interrelationships between rhetoric and technical communication within social, technological and cultural contexts to prepare for careers in public and private sectors, as well as further study in doctoral programs. Students complete courses in rhetoric, research and technical communication. The program curriculum may include studies in the theory and practice of information design, genre, usability and discourse analysis.

The TESL emphasis prepares pre-service and in-service teachers of English as a second language (ESL) or English as a foreign language (EFL) to teach second language literacy, culture, and communication skills. The program is primarily designed to prepare secondary and post-secondary teachers in a variety of settings and can also serve as preparation for doctoral studies. The emphasis includes all course work recommended for ESL teacher preparation by the national professional organization: Teaching English to Speakers of Other Languages (TESOL). Courses can be applied toward the state endorsement in ESL.

**Admission Requirements**
All applicants for a Master of Arts in English must:
- declare one of the three professional emphases as their primary area of study,
- submit an 800–1,000 word expository essay explaining what in their background (formal education, professional experience, personal life, as appropriate) has led them to apply to that particular professional emphasis and what they hope to accomplish by completing an English degree in that area, and
- submit two letters of recommendation.

In addition, applicants for literature and RTC must submit (1) scores for the Graduate Record Exam (GRE) General Test and (2) a sample of their best writing (literature applicants should submit an academic essay; RTC applicants should submit a sample of their strongest professional/technical writing).

In addition, all TESL applicants whose first language is not English must arrange for an interview with the TESL graduate program coordinator, either in person or by telephone.

International applicants must submit a TOEFL score of at least 580 (237 CBT or 92 TOEFL iBT), a PTE Academic score of at least 63 or an IELTS score of at least 7.0. Applicants with a bachelor’s degree from an accredited U.S. university are not required to submit English language scores.

An applicant with a TOEFL score between 550 (213 CBT or 79 TOEFL iBT) and 579 (233 CBT or 91 TOEFL iBT) may be admitted conditionally upon having a program of English language study approved by the TESL graduate program coordinator and the coordinator of the applicant’s declared emphasis (if other than TESL).

Note: students are admitted into the program based on the emphasis declared. Students who wish to change emphasis after being admitted to the program must submit all required application materials to the coordinator for the new emphasis. Students may only declare a change in emphasis with approval of the new emphasis coordinator.

**Teaching Assistantships (GSAs)**
The program offers a number of teaching assistantships. Our assistantships are highly competitive. Applicants who wish to be considered for teaching assistantships must submit an additional application and letter in which they describe their interest in and prior experience with teaching. (Note: GRE or TOEFL (or equivalent) scores are required for all GSA applicants who have not previously completed master’s degree.) Applications must be submitted by February 15. Teaching assistantships are awarded (for the following academic year) beginning in March and usually ending in May. Incomplete applications will NOT be considered for teaching assistantships.

**Completion Requirements**
Toward the conclusion of the MA degree program, students must write a thesis (ENGL 600) or professional essays in literature or a
professional project in RTC (ENGL 601). Literature students must pass a comprehensive examination in their second year of the program (winter term for Literature). Candidates must be registered for at least two 600 or 601 credits in the quarter in which they intend to graduate.

Language Requirement
Note: foreign language requirement can be completed concurrently with completion of MA in English graduate course work.

TESL students must demonstrate a competence in a foreign language at a level equivalent to completion of one year of college foreign language.

Note: applicants whose first language is not English and who have demonstrated appropriate competence in English are deemed to have met the language requirement.

Competence in a foreign language may be demonstrated as follows:
• completion of one year of a foreign language or American Sign Language (official transcript required) or a certificate of completion of a program of study in a recognized language institute, college, or university, or a program of study approved by the TESL coordinator;
• passing a standardized test (official scores must be presented to TESL coordinator) or a written or oral test arranged with the Department of Modern Languages at EWU;

Creative Writing, Master of Fine Arts (MFA)

Jonathan Johnson/Greg Spatz, Program Directors
425 ROB
509.359.4955
gspatz@ewu.edu

The Master of Fine Arts Program is an intensive, two-year, preprofessional course of study with an emphasis on the practice of literature as a fine art. The program includes coursework in the study of literature from the vantage point of its composition and history, but the student’s principal work is done in advanced workshops and in the writing of a book-length thesis of publishable quality in fiction, literary nonfiction or poetry. The MFA is a terminal degree program.

Admission Requirements
Applicants must take the Graduate Record Exam (GRE) General Test and submit the following documents with the application form: a writing sample consisting of 10–20 pages of poetry and/or 15–25 pages of prose, an 800-word letter stating the applicant’s reasons for pursuing the MFA and two letters of reference.

Applicants for teaching assistantships must write an additional letter in which they describe their interest in and prior experience with teaching. Applications for Teaching assistantships must be submitted by February 15. Teaching assistantships are awarded in March for the following year. No applicant can be considered for a teaching assistantship until all documentation (completed application, GRE scores, writing sample, letters of recommendation and other written materials) has been received.

Note: in order for the department to receive the GRE scores by mid-February, applicants must take the GRE no later than the previous December.

Completion Requirements
1. Students should spend six quarters in residence.

2. A student should concentrate in one of the following areas: Poetry, Fiction, Literary Nonfiction. Students, however, are expected to take coursework in areas other than the one in which they concentrate.

3. In consultation with a thesis advisor, each student will compile a list of fifteen books to augment the reading done in coursework. A portion of the oral examination, held near the end of each student’s term of study, will be devoted to questions about this list and works covered in required form and theory literature courses.

4. Each student must submit a literary thesis of substantial length and publishable quality. The thesis will be reviewed in the oral examination.

Required Courses

<table>
<thead>
<tr>
<th>CRWR 517</th>
<th>GRADUATE WRITING WORKSHOP: FICTION, POETRY, LITERARY NONFICTION, DRAMA, SCRIPTWRITING OR TRANSLATION (Note: this course may be repeated for credit; students should take one workshop from outside the major area.)</th>
</tr>
</thead>
</table>

Literary Form and Theory Courses

Choose one Literature course from outside the major area 5
Choose one series—in student’s major area of study 15

Fiction

<table>
<thead>
<tr>
<th>CRWR 583</th>
<th>FICTION I–THE NOVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRWR 584</td>
<td>FICTION II–THE SHORT FORM</td>
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<tr>
<td>CRWR 585</td>
<td>FICTION III–THE CONTEMPORARIES</td>
</tr>
</tbody>
</table>

Non-Fiction

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<thead>
<tr>
<th>CRWR 586</th>
<th>LITERARY NONFICTION I–ANCIENT ROOTS THROUGH THE 19TH CENTURY</th>
</tr>
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<tbody>
<tr>
<td>CRWR 587</td>
<td>LITERARY NONFICTION II–20TH CENTURY AND BEYOND</td>
</tr>
<tr>
<td>CRWR 588</td>
<td>LITERARY NONFICTION III–SELECTED TOPICS</td>
</tr>
</tbody>
</table>

Poetry

<table>
<thead>
<tr>
<th>CRWR 589</th>
<th>POETRY I–BACKGROUND AND THEORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRWR 590</td>
<td>POETRY II–THE MODERNS AND MODERNISM</td>
</tr>
<tr>
<td>CRWR 592</td>
<td>POETRY III–CONTEMPORARY WORLD POETRY AND POETICS</td>
</tr>
</tbody>
</table>

Thesis

| CRWR 600 | THESIS |

Electives in creative writing, literature and/or a secondary emphasis 17

Note: variations are possible following consultation with student’s program advisor.

Total Credits 72

Student Learning Outcomes—students will

• develop advanced understanding of the publishing process;
• develop familiarity with advanced formal and technical aspects of fundamental literary works from the tradition and selected contemporary works in that genre. This knowledge will be evident both in students’ critical responses and in students’ own creative works;
• demonstrate advanced ability to exercise self-criticism and to offer insightful, supportive and productive criticism to others. Part of this can be construed as students’ development of editorial capacities, but part of it must be the development of a capacity to foster their own and others’ continued artistic development through critical reading.
English Education-Secondary, Bachelor of Arts in Education (BAE)

This major satisfies the endorsement for grades 5–12.

Note: see the Education Department for prerequisites, core requirements and additional SLOs.

Required Secondary Education Core

30–hour multicultural education field requirement

EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 309 and FOUNDATIONS OF SECONDARY CLASSROOM
MANAGEMENT (these three courses must be
taken concurrently)

EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT 4

EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4

EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required English/Secondary Major

Pre-Major Requirements

Note: Students must complete CRWR 210 with a grade ≥3.0.
ENGL 270 and ENGL 271 each require a grade ≥2.5 and ≥3.0 average for the two courses together.

CRWR 210 INTRODUCTION TO CREATIVE WRITING 5
ENGL 270 INTRODUCTION TO FICTION 5
ENGL 271 INTRODUCTION TO POETRY 5

Department Core

ENGL 340 SURVEY OF BRITISH LITERATURE I 5
ENGL 341 SURVEY OF BRITISH LITERATURE II 5
ENGL 342 SURVEY OF BRITISH LITERATURE III 5
ENGL 343 SURVEY OF AMERICAN LITERATURE I 5
ENGL 344 SURVEY OF AMERICAN LITERATURE II 5
ENGL 350 SHAKESPEARE 5
ENGL 360 LANGUAGE STRUCTURE AND USE 5

Choose two of the following—the minimum grade point for each is ≥2.5.

ENGL 340 SURVEY OF BRITISH LITERATURE I 5
ENGL 341 SURVEY OF BRITISH LITERATURE II 5
ENGL 342 SURVEY OF BRITISH LITERATURE III 5
ENGL 343 SURVEY OF AMERICAN LITERATURE I 5
ENGL 344 SURVEY OF AMERICAN LITERATURE II 5
ENGL 350 SHAKESPEARE 5

Recommended: HUMN 210 or HUMN 211 for partial fulfillment of their GECR in Humanities unless students have DTA degrees from an approved community college.

Total Credits 113

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Note: see Education for additional SLOs.

• reflectively assess their own ongoing development as teachers of English/Language Arts;
• demonstrate their competence in established national standards (such as the guidelines of the National Council of Teachers of English) in content knowledge, pedagogical knowledge and professional disposition.

English Major with Creative Writing Option, Bachelor of Arts (BA)

Mission Statement: The Creative Writing Program develops students’ abilities in creative writing in the genres of poetry, fiction, and non-fiction on a foundation of study of significant literary texts in British, American, and world literature.

Creative Writing is a studio program designed to help students publish their artistic work. It is not intended to prepare a student for a specific career; however, our creative writing graduates, while publishing artistic work, have found diversified careers in editing, publishing, grant writing, teaching, professional schools and many fields less directly related to their writing abilities. Courses in technical communications are complementary to these career interests.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Students in the Creative Writing option are encouraged to register for 5+ credits from the following list of General Education Core Requirements: HUMN 210 or HUMN 211 or history courses appropriate to the student’s area of literary interest.

Pre-Major Requirements

Note: Students must complete CRWR 210 with a grade ≥3.0.
ENGL 270 and ENGL 271 each require a grade ≥2.5 and ≥3.0 average for the two courses together.

CRWR 210 INTRODUCTION TO CREATIVE WRITING 5
ENGL 270 INTRODUCTION TO FICTION 5
ENGL 271 INTRODUCTION TO POETRY 5

Department Core

ENGL 340 SURVEY OF BRITISH LITERATURE I 5
ENGL 341 SURVEY OF BRITISH LITERATURE II 5
ENGL 344 SURVEY OF BRITISH LITERATURE III 5
ENGL 343 SURVEY OF AMERICAN LITERATURE I 5
ENGL 344 SURVEY OF AMERICAN LITERATURE II 5
ENGL 350 SHAKESPEARE 5

Required Creative Writing Courses

CRWR 311 FORM AND THEORY OF FICTION 5
CRWR 312 FORM AND THEORY OF POETRY 5
CRWR 313 FORM AND THEORY OF LITERARY NONFICTION 5

Electives—two or more 300- or 400-level literature courses—choose in consultation with departmental advisor.
CRWR 417  CREATIVE WRITING WORKSHOP (must be repeated with choice of Fiction–Nonfiction–Poetry)  10
CRWR 491  CREATIVE WRITING SENIOR THESIS (cannot be taken until completion of CRWR 311, CRWR 312 or CRWR 313 and two CRWR 417 workshops)  5

Additional creative writing credits—choose from the following  5

CRWR 311  FORM AND THEORY OF FICTION
or CRWR 312  FORM AND THEORY OF POETRY
or CRWR 313  FORM AND THEORY OF LITERARY NONFICTION
CRWR 415  LITERARY EDITING AND DESIGN
CRWR 416  WILLOW SPRINGS EDITIONS INTERNSHIP
CRWR 417  CREATIVE WRITING WORKSHOP
DES 360  PUBLICATION DESIGN

Total Credits  70

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate adherence to disciplinary conventions, including grammar, mechanics and appropriate citation style, and production of creative and rhetorically sensitive prose;
• compose sophisticated arguments that are well organized and supported by research and textual evidence;
• demonstrate essential skills of deep reading, analytical writing, and critical thinking;
• demonstrate knowledge of literary texts, cultures and time periods in order to develop cultural awareness and competency.

English Major with Literary Studies Option, Bachelor of Arts (BA)

Mission Statement: The English Literature Program develops students’ abilities in analytical reading, writing, and thinking through study of significant literary texts in British, American, and world literature.

Literary Studies is a liberal arts program. It often is recommended as a pre-professional program and is the most appropriate concentration for those students hoping to pursue the study of language and literature at the doctoral level. Many students pursue this concentration for personal enrichment or in preparation for other types of careers or professional schools. Literary Studies majors are generally successful wherever verbal and analytical skills are important.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Pre-Major Requirements

Note: ENGL 270 and ENGL 271 requires a minimum grade ≥2.5 in each course and a ≥3.0 average for the two courses together.

Note: see admission requirements for remaining requirements for the common departmental pre-major.

ENGL 270  INTRODUCTION TO FICTION  5
ENGL 271  INTRODUCTION TO POETRY  5

Department Core

ENGL 340  SURVEY OF BRITISH LITERATURE I  5
ENGL 341  SURVEY OF BRITISH LITERATURE II  5
ENGL 342  SURVEY OF BRITISH LITERATURE III  5
ENGL 343  SURVEY OF AMERICAN LITERATURE I  5
ENGL 344  SURVEY OF AMERICAN LITERATURE II  5
ENGL 350  SHAKESPEARE  5

Required Literary Study Option Courses

ENGL 273  CRITICAL METHODOLOGIES  5
ENGL 360  LANGUAGE STRUCTURE AND USE  5
ENGL 490  SENIOR CAPSTONE  5

Select one of the following  5

ENGL 385  MYTHOLOGY
ENGL 387  LITERATURE OF THE BIBLE

Select two or more seminar courses from the following  10

ENGL 436  SEMINAR IN LITERATURE I: MAJOR AUTHORS
ENGL 437  SEMINAR IN LITERATURE II: STUDIES IN GENRE
ENGL 438  SEMINAR IN LITERATURE III: LITERARY ERAS
ENGL 439  SEMINAR IN LITERATURE IV: SPECIAL TOPICS

Elective—select one 400-level literature course  5

Total Credits  75

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate adherence to disciplinary conventions, including grammar, mechanics and appropriate citation style, and production of creative and rhetorically sensitive prose;
• compose sophisticated arguments that are well organized and supported by research and textual evidence;
• demonstrate essential skills of deep reading, analytical writing, and critical thinking;
• demonstrate knowledge of literary texts, cultures and time periods in order to develop cultural awareness and competency.

English with an Emphasis in Literature and Writing (MA)

Literature Emphasis Coordinator
Judy Logan
509.359.6035

Program Core

ENGL 511  COMPOSITION PEDAGOGIES: THEORIES AND PRACTICES  5
ENGL 520  SEMINAR IN RESEARCH METHODS AND DESIGN  5
ENGL 564  PEDAGOGICAL GRAMMAR AND COMPOSITION  5
ENGL 568  TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY  5
ENGL 573  HISTORY OF RHETORIC  5
or ENGL 575  CONTEMPORARY RHETORICAL THEORIES
ENGL 695B  INTERNSHIP: TEACHING LITERATURE (must select an internship appropriate to their discipline-consult with program director)

Literature

Choose three from the following  15

ENGL 536  GRADUATE SEMINAR IN LITERATURE I: MAJOR LITERARY FIGURES
ENGL 537  GRADUATE SEMINAR IN LITERATURE II: GENRE STUDIES
ENGL 538  GRADUATE SEMINAR IN LITERATURE III: LITERARY ERAS
ENGL 539  GRADUATE SEMINAR IN LITERATURE IV: SPECIAL TOPICS
ENGL 570  SEMINAR IN TEACHING LITERATURE  5
ENGL 571  ADVANCED LITERARY THEORY  5
ENGL 600  THESIS  5
or ENGL 601  PROFESSIONAL ESSAY

Total Credits  60

SLOs for the common core of classes:

• apply a variety of rhetorical and theoretical approaches useful to critical analysis;
• speak effectively in public forums with the complement of visual media;
• demonstrate ability to analyze, evaluate, synthesize and document library and internet sources in conducting research.

SLOs for the Literature and Writing emphasis:

• demonstrate mastery of a variety of rhetorical forms conducive to literary analysis; demonstrate mastery of the conventions of editing, grammar, MLA, and document design;
• generate persuasive written documents that can pass professional peer review.

English with an Emphasis in Rhetoric and Technical Communication (MA)

Rhetoric and Technical Communication Emphasis Coordinator
Molly Johnson
509.359.6037

Program Core
ENGL 511  COMPOSITION PEDAGOGIES: THEORIES AND PRACTICES  5
ENGL 520  SEMINAR IN RESEARCH METHODS AND DESIGN  5
ENGL 564  PEDAGOGICAL GRAMMAR AND COMPOSITION  5
ENGL 568  TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY  5
ENGL 573  HISTORY OF RHETORIC  5
or ENGL 575  CONTEMPORARY RHETORICAL THEORIES  5
ENGL 695D  INTERNSHIP: PROFESSIONAL WRITING (Students who are currently employed or who have extensive work experience in the field may with the approval of the designated program director opt to take an elective course. The elective course must be select in consultation with and approved by the program director.)

Rhetoric and Technical Communication
ENGL 503  INFORMATION DESIGN  5
ENGL 504  INSTRUCTIONS AND PROCEDURES  5
ENGL 507  PROPOSAL WRITING  5
ENGL 509  EDITING IN TECHNICAL COMMUNICATION  5

ENGL 573  HISTORY OF RHETORIC (must differ from the rhetoric course taken to complete core requirements)
or ENGL 575  CONTEMPORARY RHETORICAL THEORIES  5
ENGL 590  RHETORIC AND TECHNICAL COMMUNICATION CAPSTONE  3
ENGL 600  THESIS (Students who opt to do additional course work instead of a thesis or professional project will be required to pass a comprehensive exam. The comprehensive exam will be taken while the student is enrolled in ENGL 590. Students who do not pass the comprehensive exam may retake the test no more than one additional time. Note that this option may increase the number of credit required to graduate by 2-3 credits. Students will be charged for the extra credits.)
or ENGL 601  PROFESSIONAL ESSAY

Total Credits  60

SLOs for the common core of classes:

• apply a variety of rhetorical and theoretical approaches useful to critical analysis;
• speak effectively in public forums with the complement of visual media;
• demonstrate ability to analyze, evaluate, synthesize and document library and internet sources in conducting research.

SLOs for the Rhetoric and Technical Communication emphasis:

• design rhetorically effective use-centered documents;
• communicate complex information effectively to a variety of users;
• identify instructional needs and design training and/or curriculum to effectively teach others.

English with an Emphasis in Teaching English as a Second Language (MA)

Teaching English as a Second Language Emphasis Coordinator
Lavona Reeves
509.359.7060

Program Core
ENGL 511  COMPOSITION PEDAGOGIES: THEORIES AND PRACTICES  5
ENGL 520  SEMINAR IN RESEARCH METHODS AND DESIGN  5
ENGL 564  PEDAGOGICAL GRAMMAR AND COMPOSITION  5
ENGL 568  TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY  5
ENGL 573  HISTORY OF RHETORIC  5
or ENGL 575  CONTEMPORARY RHETORICAL THEORIES  5
ENGL 695C  INTERNSHIP: TEACHING ENGLISH AS A SECOND LANGUAGE  5

Teaching English as a Second Language
ENGL 560  APPLIED LINGUISTICS  5
ENGL 580  SECOND LANGUAGE ACQUISITION  5
ENGL 581  SECOND LANGUAGE CURRICULUM DESIGN AND ASSESSMENT  5
ENGL 582 MODERN LANGUAGE METHODOLOGY 5
Electives (in consultation with and approved by program coordinator) 5
ENGL 600 THESIS 5
or ENGL 601 PROFESSIONAL ESSAY 5
Total Credits 60

SLOs for the common core of classes:

• apply a variety of rhetorical and theoretical approaches useful to critical analysis;
• speak effectively in public forums with the complement of visual media;
• demonstrate ability to analyze, evaluate, synthesize and document library and internet sources in conducting research.

SLOs for the Teaching English as a Second Language emphasis:

• demonstrate depth of cultural understanding of diverse populations both locally and globally;
• apply current language teaching methods and approaches;
• design and assess curriculum for diverse populations, levels and settings;
• engage in reflective practice to foster language acquisition.

English Minor

Minor programs are available for students interested in combining a general interest in English language and literature with a liberal arts major, for those wishing to study technical writing in preparation for a technical, scientific, professional or communications career and for those planning to teach at the elementary or secondary level.

Required Courses
ENGL 271 INTRODUCTION TO POETRY 5
ENGL 350 SHAKESPEARE 5
Choose one of the following courses 5
ENGL 340 SURVEY OF BRITISH LITERATURE I
ENGL 341 SURVEY OF BRITISH LITERATURE II
ENGL 342 SURVEY OF BRITISH LITERATURE III
ENGL 343 SURVEY OF AMERICAN LITERATURE I
ENGL 344 SURVEY OF AMERICAN LITERATURE II
Elective—select a minimum of 5 credits of 300- or 400-level English course(s). 5
Total Credits 20

Teaching of Literature and Post-Master’s Certificate in the Teaching of Literature, Certificate

Judy Logan, Program Director
509.359.6035

This program is designed for individuals who already have or are working on Master’s Degrees and have significant experience in education, composition/rhetoric, TESOL or technical writing. Documentation of the graduate degree or program in progress and relevant prior experience is required for admission.

Individuals with Master’s degrees in hand often discover that in order to teach literature at the community college level they need some coursework in literature and experience in the teaching of literature. This is particularly true of those with degrees in Rhetoric and Composition because many schools now use literature to teach composition and most who teach composition at the community college level are also expected to teach introductory literature courses. This certification program addresses the needs of these people.

Program Prerequisites: ten quarter or six semester college or university credits in literature and a graduate degree or current graduate-student status in a related program (education, composition/rhetoric, TESOL or technical writing [or literature, if the student has no teaching experience]).

Required Certificate Courses
ENGL 598 SEMINAR IN LANGUAGE AND LITERATURE (and two additional approved 400- or 500-level literature courses or seminars) 15
**Student Learning Outcomes—students will**

- demonstrate careful reading of a text and explicate a text using a range of literary theories and critical methodologies;
- reflectively assess their own ongoing development as writers and teachers.

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**Teaching of Writing and Post-Master’s Certificate in the Teaching of Writing, Certificate**

Justin Young (jayoung@ewu.edu), Program Director 509.359.7062

EWU graduate students in good standing who intend to pursue college teaching careers may complete the Certificate in the Teaching of Writing program while working toward their graduate degrees. The Certificate program provides an education in composition theories and pedagogies, including areas of curriculum development, assessment practices, research design, grammar instruction and teaching and/or tutoring. Credits earned as part of the certificate program may also be counted toward students’ graduate requirements upon approval from their advisor.

Individuals who already have master’s degrees and who have significant experience in education, literature, communications, business or technology may also pursue this program.

Any course substitutions must be approved by the current English Composition director before being submitted to the Graduate Programs Office.

**Required Certificate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 695B</td>
<td>INTERNSHIP: TEACHING LITERATURE</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 511</td>
<td>COMPOSITION PEDAGOGIES: THEORIES AND PRACTICES</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 520</td>
<td>SEMINAR IN RESEARCH METHODS AND DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 568</td>
<td>TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 573</td>
<td>HISTORY OF RHETORIC (or an approved substitution)</td>
<td>5</td>
</tr>
<tr>
<td>or ENGL 575</td>
<td>CONTEMPORARY RHETORICAL THEORIES</td>
<td></td>
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<tr>
<td>ENGL 560</td>
<td>APPLIED LINGUISTICS</td>
<td>5</td>
</tr>
<tr>
<td>or ENGL 564</td>
<td>PEDAGOGICAL GRAMMAR AND COMPOSITION</td>
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<tr>
<td>ENGL 695A</td>
<td>INTERNSHIP: TEACHING COMPOSITION</td>
<td>3-5</td>
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<tr>
<td>or ENGL 695E</td>
<td>INTERNSHIP: WRITER’S CENTER</td>
<td></td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

**Student Learning Outcomes—students will**

- design curricular materials for composition classes or writing centers;
- develop assessment strategies for evaluating and responding to writing and writers;
- learn the methods of research design;
- develop strategies for teaching grammar and syntax;
- practice teaching composition in a classroom or responding to writers in a writing center.

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**Technical Communication, Bachelor of Arts (BA)**

Technical Communication is a professional program designed to prepare students for a career as a technical writer. Technical writers develop, edit, and manage a range of professional documents, including instructional manuals, catalogs, promotional materials, newsletters, organizational policies, websites, training materials, and grant proposals. Because of the diverse nature of the profession, students will need to develop a broad base of professional writing skills, including work in documentation, editing, and information design. Students also choose from two options: one focusing on graphic design and public relations, and the other focusing on information systems (databases) and web development. As part of this program, students will complete a professional internship, requiring at least 200 hours of supervised work in a business, industry or agency related to the student’s academic preparation and career goals. Students will also develop basic computer literacy, including working knowledge in desktop publishing and web design practices.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

**Required Core Courses**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 360</td>
<td>LANGUAGE STRUCTURE AND USE</td>
<td>5</td>
</tr>
<tr>
<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
<td>5</td>
</tr>
<tr>
<td>(Students must complete this course with a grade ≥3.0)</td>
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<tr>
<td>TCOM 305</td>
<td>USABILITY AND INFORMATION DESIGN IN TECHNICAL COMMUNICATION</td>
<td>5</td>
</tr>
<tr>
<td>TCOM 309 or ENGL 309</td>
<td>GRAMMAR FOR PROFESSIONAL WRITERS</td>
<td>5</td>
</tr>
<tr>
<td>or JRNM 309</td>
<td>GRAMMAR FOR PROFESSIONAL WRITERS</td>
<td></td>
</tr>
<tr>
<td>TCOM 404</td>
<td>INSTRUCTIONS AND PROCEDURES</td>
<td>5</td>
</tr>
<tr>
<td>TCOM 407</td>
<td>PROPOSAL WRITING</td>
<td>5</td>
</tr>
<tr>
<td>TCOM 409</td>
<td>EDITING IN TECHNICAL COMMUNICATION</td>
<td>5</td>
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<tr>
<td>TCOM 490</td>
<td>SENIOR CAPSTONE: ISSUES IN TECHNICAL COMMUNICATION</td>
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<tr>
<td>TCOM 495</td>
<td>TECHNICAL COMMUNICATION INTERNSHIP</td>
<td>5-15</td>
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</table>

**Required Elective—choose one—these courses meet the cultural and gender diversity requirement**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 340</td>
<td>INTERCULTURAL COMMUNICATION</td>
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</tr>
<tr>
<td>DSST 310</td>
<td>DISABILITY, CULTURE AND SOCIETY</td>
<td></td>
</tr>
<tr>
<td>ENGL 380 or IDST 380</td>
<td>SURVEY OF NATIVE AMERICAN LITERATURE</td>
<td></td>
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<tr>
<td>ENGL 389 or WMST 389</td>
<td>WOMEN, LITERATURE AND SOCIAL CHANGE</td>
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</table>

**Select Option A or B**

**Option A—Technical Communication with VCD and PR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMST 200</td>
<td>INTRODUCTION TO SPEECH COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>DESN 100</td>
<td>DRAWING FOR COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td></td>
</tr>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN</td>
<td></td>
</tr>
</tbody>
</table>

**Option B—Technical Communication with PR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 200</td>
<td>INTRODUCTION TO SPEECH COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>DESN 100</td>
<td>DRAWING FOR COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td></td>
</tr>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN</td>
<td></td>
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</tbody>
</table>

**Total Credits**: 41
DESN 375 DIGITAL VIDEO (or other DESN course with director approval)  
or DESN 350 DIGITAL IMAGING AND PHOTOGRAPHY  
or DESN 378 WEB DESIGN 2  
JRNM 451 PUBLIC RELATIONS WRITING  
JRNM 452 INTRODUCTION TO PUBLIC RELATIONS THEORY  
JRNM 453 ADVANCED PUBLIC RELATIONS THEORY  
TECH 393 TECHNOLOGY WORLD CIVILIZATION (meets international studies requirement)  

Option B—Technical Communication with Information Systems and Web Application  
CSCD 110 INTRODUCTION TO PROGRAMMING  
CSCD 210 PROGRAMMING PRINCIPLES I  
CSCD 211 PROGRAMMING PRINCIPLES II  
CSCD 300 DATA STRUCTURES  
CSCD 327 RELATIONAL DATABASE SYSTEMS  
CSCD 378 WEB APPLICATION DEVELOPMENT  
or CSCD 379 .NET WEB APPLICATION DEVELOPMENT  
DESN 100 DRAWING FOR COMMUNICATION  
DESN 216 DIGITAL FOUNDATIONS  
DESN 368 WEB DESIGN 1  

Required Courses  
TCOM 205 INTRODUCTION TO TECHNICAL COMMUNICATION 5  
TCOM 305 USABILITY AND INFORMATION DESIGN IN TECHNICAL COMMUNICATION 5  
TCOM 404 INSTRUCTIONS AND PROCEDURES 5  
TCOM 407 PROPOSAL WRITING 5  
Elective—choose one 300- or 400-level ENGL course in consultation with TCOM faculty 4-5  

Total Credits 24-25  

For information on General Education, see Undergraduate Degree (p. 39).  

Student Learning Outcomes—students will  
• analyze communication problems and propose effective and ethical solutions by clearly identifying and describing the problem and its context, the stakeholders and audiences involved, and the possible outcomes and consequences;  
• plan and manage team projects by identifying tasks, creating a time line for task completion, assigning tasks to individuals, and reporting plan and progress to supervisor/client;  
• conduct productive research by determining scope of inquiry, identifying credible and useful sources, collecting and assessing data, and arranging data into logical and considerate structures;  
• write, design, and edit a variety of professional documents, both print and electronic, using the principles of information design to create usable documents that address audiences’ information and organizational needs and engage users in appropriate action;  
• locate, create, design, edit, and present information, using proficiently a variety of standard technologies;  
• copyedit and proofread quantitative and technical information, reference citations, illustrations, and tables using the established symbols and conventions, style sheets, and correct grammar, mechanics, punctuation, and spelling.  

Technical Communication Minor  
The Technical communication Minor is a strong addition to any major. The set of communication skills offered will work well in a variety of professional contexts, enabling students from any discipline to communicate effectively and thereby excel in their careers.  

Note: The prerequisite for TCOM 205 is ENGL 201. Students transferring to Eastern Washington University may need to take ENGL 201.
The English Language Institute is a program focused on helping students improve English language skills in order to participate in academic programs. The curriculum is for non-native speakers of English. After receiving recommendation from the ELI faculty, admissible students can matriculate directly into undergraduate studies at EWU. With the ELI faculty recommendation, students may also enter the Graduate Preparation Program or MBA Preparation Program as a step into graduate studies.

The ELI is fully accredited by the Northwest Commission on Colleges and Universities (NWCCU) and agrees to uphold the NWCCU Standards for English Language Programs. The ELI is also a member of UCIEP, a consortium of University and College Intensive English Programs in the USA, AAIEP, American Association of Intensive English Programs and NASFA, National Association of International Educators.
English as a Second Language

Gina Mikel Petrie, Program Coordinator
133H Patterson Hall
509.359.6124

Undergraduate Minors

- English as a Second Language (p. 125)

Undergraduate Program

The Teaching of English as a Second Language program (TESL) is offered as a minor in cooperation with the Departments of English and Anthropology. This program works closely with Spokane area English language programs through academic service learning to provide opportunities to put theory into practice in purposeful ways. Completion of either ANTH 445 or ENGL 360 before taking ESLG 480 or permission of the instructor is a prerequisite.

The minor in English as a Second Language is designed for teacher preparation for employment in the U.S. (English as a Second Language) and overseas (English as a Foreign Language). Students are prepared through the examination of fundamentals of linguistics, second language acquisition and culture. An understanding of methods and assessment is built upon this theoretical basis. A practicum experience enables students to put theory into practice. This program is designed as a sequence through an academic year but can be taken over multiple years.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

English as a Second Language Minor

This minor satisfies the endorsement for preschool to grade 12.

Foundation—choose from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 445</td>
<td>ANTHROPOLOGICAL LINGUISTICS</td>
<td>5</td>
</tr>
<tr>
<td>or ENGL 360</td>
<td>LANGUAGE STRUCTURE AND USE</td>
<td></td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESLG 480</td>
<td>SECOND LANGUAGE ACQUISITION</td>
<td>4</td>
</tr>
<tr>
<td>ESLG 481</td>
<td>METHODS AND MATERIALS IN ENGLISH AS A SECOND OR FOREIGN LANGUAGE</td>
<td>4</td>
</tr>
<tr>
<td>ESLG 484</td>
<td>SUPPORTING SECOND LANGUAGE LITERACY LEARNING</td>
<td>3</td>
</tr>
<tr>
<td>ESLG 486</td>
<td>ENGLISH AS A SECOND LANGUAGE PRACTICUM</td>
<td>3</td>
</tr>
<tr>
<td>ESLG 488</td>
<td>SECOND LANGUAGE PRINT LITERACY THEORIES</td>
<td>3</td>
</tr>
<tr>
<td>ESLG 489</td>
<td>CULTURAL AND LINGUISTIC DIVERSITY IN THE CLASSROOM</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives—choose from the following

Note: EDUC majors seeking Washington State Endorsement should choose ESLG 493

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESLG 493</td>
<td>K-12 ENGLISH LANGUAGE LITERACY ASSESSMENT AND PLACEMENT</td>
<td>3</td>
</tr>
<tr>
<td>or ESLG 494</td>
<td>ADULT ENGLISH LANGUAGE LITERACY ASSESSMENT AND PLACEMENT</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 29

Student Learning Outcomes—students will
Film

Pete Porter, Chair
department page (http://www.ewu.edu/cale/programs/film)
104 RTV Building
509.359.6390

Faculty
Drew Ayers, Sara E. Goff, Shana Joslyn, Elisha Miranda, Chase N. Ogden,
Peter S. Porter, Jeffrey A. Sanders, Marvin E. Smith.

Undergraduate Degrees
Bachelor of Arts (BA)
- Film (p. 126)

Undergraduate Minors
- Film (p. 126)
- Film Studies (p. 127)
- Screenwriting (p. 127)

Undergraduate Program
The Film program prepares students for creative roles in the filmic arts. The 81-credit program provides intensive experience in production and writing as well as film history, theory, and criticism. Graduates write a classically structured, feature-length screenplay and complete an advanced production project or a theory/criticism project. A faculty-student panel reviews both the screenplay and the project as a part of the Senior Capstone experience.

The Film program requires a very specific sequence of courses and admission to the program is restricted to fall quarter. Failure to complete courses as they are offered will result in a significant delay in progress toward graduation because most courses are offered only once a year. Students should declare their major status no later than the fall quarter that they intend to begin their major in FILM and to consult with the department chair about the program and its requirements. Students are encouraged to complete all, or nearly all, of their GECR courses before beginning the Film program.

The Film Program provides students with audio and video editing suites, field production equipment, and a variety of production facilities.

The location of the campus in proximity to Spokane, a center of motion picture production, allows students to participate in internship programs in a wide range of communication settings.

Transfer Requirements for Film
Students must enter the program in the fall quarter. Students should make application for major status prior to the fall quarter that they intend to begin their major in FILM and consult with the department chair on transferability of courses. Transfer students, including students with AA degrees, must complete FILM 214 no later than their first fall quarter in the program.

Foreign Language Requirements for Film
Two years of a single foreign language in high school or one year of a single foreign language at the college level is required for graduation with a BA major in FILM.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Graduate Program
The Department of Theatre and Film does not offer a graduate degree but does cooperate in the Master of Science in Communications and in individualized interdisciplinary programs. The MS in Communications program is also described elsewhere in this catalog. Proposed interdisciplinary programs must be developed in consultation with a Theatre and Film advisor and submitted in compliance with requirements listed under Interdisciplinary Graduate Programs.

Note: any student enrolling in upper-division courses must be an FILM major or have permission of the instructor.

Film General Minor
Note: students may complete this minor in one year beginning in a fall quarter if prerequisites are met upon entering the program

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>INTRODUCTION TO FILMIC ARTS MEDIA PRODUCTION</td>
<td>5</td>
</tr>
<tr>
<td>FILM 214</td>
<td>FILM AND THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>FILM 221</td>
<td>NARRATIVE SCRIPT ANALYSIS</td>
<td>5</td>
</tr>
<tr>
<td>FILM 321</td>
<td>WRITING THE SHORT FILM</td>
<td>5</td>
</tr>
<tr>
<td>FILM 465</td>
<td>FILM HISTORY I</td>
<td>5</td>
</tr>
<tr>
<td>FILM 466</td>
<td>FILM HISTORY II</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Film Major, Bachelor of Arts (BA)

Notes:
- two years of a single high school foreign language or one year of a single college level foreign language is required;
- all students will be admitted to full major standing only after completion of all lower-division required GECR courses and acceptance by the department.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>INTRODUCTION TO FILMIC ARTS MEDIA PRODUCTION</td>
<td>5</td>
</tr>
<tr>
<td>FILM 214</td>
<td>FILM AND THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>FILM 221</td>
<td>NARRATIVE SCRIPT ANALYSIS</td>
<td>5</td>
</tr>
<tr>
<td>FILM 305</td>
<td>ACTING FOR DIRECTORS AND WRITERS I</td>
<td>2</td>
</tr>
<tr>
<td>FILM 306</td>
<td>ACTING FOR DIRECTORS AND WRITERS II</td>
<td>2</td>
</tr>
<tr>
<td>FILM 311</td>
<td>FILM PRODUCTION</td>
<td>5</td>
</tr>
<tr>
<td>FILM 312</td>
<td>FILM DIRECTING AND PRODUCING</td>
<td>5</td>
</tr>
<tr>
<td>FILM 321</td>
<td>WRITING THE SHORT FILM</td>
<td>5</td>
</tr>
<tr>
<td>FILM 322</td>
<td>ADAPTATION</td>
<td>5</td>
</tr>
<tr>
<td>FILM 410</td>
<td>ADVANCED FILM PRODUCTION I</td>
<td>5</td>
</tr>
<tr>
<td>FILM 417</td>
<td>ADVANCED SCREENWRITING</td>
<td>4</td>
</tr>
<tr>
<td>FILM 420</td>
<td>FEATURE FILM WRITING</td>
<td>4</td>
</tr>
</tbody>
</table>
FILM 465 FILM HISTORY I 5
FILM 466 FILM HISTORY II 5
FILM 467 FILM THEORY AND CRITICISM 5
FILM 470 FILM CRITICISM (must be repeated with topics 1 and 2) 8
FILM 482 ORAL EXAMINATION: PRODUCTION 1
or FILM 483 ORAL EXAMINATION: CRITICISM
FILM 484 ORAL EXAMINATION: SCREENWRITING 1
FILM 490 FILM SENIOR CAPSTONE 4

Optional Courses
FILM 439 SPECIAL TOPICS
FILM 480 ADVANCED FILM PRODUCTION II
FILM 481 ADVANCED FILM PRODUCTION III
FILM 495 FIELD EXPERIENCE IN FILM AND ELECTRONIC MEDIA

Total Credits 81

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• direct and produce fiction and nonfiction short videos;
• write classically structured screen plays of varying lengths;
• integrate knowledge of video production, writing and critical practice to their creative work;
• apply theories of the filmic arts as a means of deepening their criticism.

Film Studies Minor

Note: students may complete the Film Studies Minor in five quarters if prerequisites are met upon entering the program

Required Courses
FILM 214 FILM AND THE HUMANITIES 5
FILM 465 FILM HISTORY I 5
FILM 466 FILM HISTORY II 5
FILM 467 FILM THEORY AND CRITICISM 5
FILM 470 FILM CRITICISM 4
Total Credits 24

Screenwriting Minor

Note: students may complete the Screenwriting Minor in five quarters if prerequisites are met upon entering the program

Required Courses
FILM 214 FILM AND THE HUMANITIES 5
FILM 221 NARRATIVE SCRIPT ANALYSIS 5
FILM 321 WRITING THE SHORT FILM 5
FILM 322 ADAPTATION 5
FILM 417 ADVANCED SCREENWRITING 4
FILM 420 FEATURE FILM WRITING 4
Total Credits 28
Humanities

Grant Smith, Coordinator
department page (http://www.ewu.edu/cale/programs/humanities)
152 A Reid
509.359.6023

Faculty
Varies.

Undergraduate Degrees

Bachelor of Arts (BA)
- Humanities (p. 128)

Minors
- Humanities (p. 128)

Undergraduate Programs

Study of the humanities is distinguished by an interest in the human aspect of all knowledge. The humanities are therefore broad in nature and a variety of individual programs can be designed for students who want a non-vocational, liberal arts background.

Each student majoring in humanities is expected to give careful attention to the relationships among the courses chosen for major and supporting purposes and he or she should consult with the program coordinator frequently regarding the most effective means for achieving a synthesis.

The following distribution requirements are expected to meet the needs of most students; other patterns may be developed with approval of the program coordinator. In addition to the courses listed below, individual study of the classical languages, Greek and Latin, may be arranged.

The Humanities program offers two minors—a 20 credit minor in Humanities proper and 21–25 credit minor in Religious Studies.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Humanities Major, Bachelor of Arts (BA)

Mission Statement: The Humanities Program develops students’ understanding of how cultural values are expressed in art, music, philosophy, and literature and enhances their verbal and analytical skills.

Notes:
- two years of a single high school foreign language or one year of a single college level foreign language is required;
- 64 credits must be earned in courses not used for GECRs;
- because this is an interdisciplinary major, all students are required to consult with the program coordinator when selecting courses for the above major.

Required Courses
Fine Arts—choose two or three courses from the following 10
Art Department and/or Music Department and/or Theatre Department

Literature—choose two or three courses from the following 10
English Department and/or Modern Languages and Literatures Department and/or Humanities

Philosophy—choose at least two courses from the following 10
Department of Philosophy and/or Humanities

Social Sciences—choose two or three courses from the following 10
Geography/Anthropology Department (courses in anthropology) and/or Economics Department and/or Government Department and/or History Department and/or Psychology Department and/or Sociology Department

Electives required in the major 20
Choose any HUMN courses not used for GECRs. These courses may be taken from the participating departments’ offerings or from the Humanities program itself. Consult with the program coordinator.

Capstone
HUMN 491 SENIOR THESIS 4
or ITGS 400 INTERDISCIPLINARY SR CAPSTONE

Total Credits 64

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- distinguish basic forms and strategies of philosophy, literature and at least one of the arts and social sciences;
- demonstrate basic knowledge of the development of Western Civilization, including the influence on the culture from other civilizations;
- write clear and effective English in a variety of rhetorical contexts;
- demonstrate knowledge of the different areas and functions of a library and demonstrate practical use of information resources in simple but independent research;
- interpret experiences and information differentially, incorporating perspectives of those who are different in cultural background, age, abilities, ethnicity, gender or sexual orientation.

Humanities Minor

A Humanities minor is designed for students who wish to broaden and deepen their understanding and skills in selected areas of the traditional liberal arts.

Notes:
- students should seek prior approval of the program coordinator for course selections;
- HUMN courses emphasize analysis, history and theory of a subject;
- practicums, workshops, internships, studio and applied courses are usually not applicable.

Required Courses—in addition to courses used for GECRs 20
Choose from at least two of these areas: Fine Arts—Literature—Philosophy
Select 5 credits, elective, in one of the three areas listed above or in another area of study (e.g., social sciences)
At least 10 credits must be at the 300-level or above
No more than 10 credits may be counted from any one department except HUMN

<table>
<thead>
<tr>
<th>Total Hours</th>
<th>20</th>
</tr>
</thead>
</table>

Undergraduate Degrees

Bachelor of Arts (BA)
- Journalism Major News Editorial Option (p. 130)

Bachelor of Science (BS)
- Journalism: Public Relations (p. 131)

Minors
- Journalism (p. 131)

Undergraduate Programs
The Journalism Program is designed to prepare students for journalism careers in news reporting, public relations and public information.

Few careers demand a more varied body of knowledge than does journalism. Journalists today are constantly working with far-ranging and complex issues. The journalism curriculum at Eastern recognizes that the profession is both a discipline of its own and yet a fusion of many disciplines in our culture.

Program Admissions Requirements
Transfer students should contact a Journalism Program advisor during their application to the university. Freshmen and sophomores should try to complete their GECRs during their first two years. They are encouraged to take JRMN 100. Freshmen and sophomores should contact the Journalism Program’s advisors to identify those courses needed to prepare for their selected degree option. Completion of ENGL 101 and ENGL 201 are required for admission to the Journalism Program.

Because journalism courses build upon one another and most are not repeated during the year, it is recommended that students begin study in the fall.

The BA News–Editorial Option prepares students for roles in print and electronic journalism.

The option in Public Relations provides students with the theoretical and applied knowledge and skills required to enter the field of public relations, community relations and allied disciplines.

Internships
Students completing the News-Editorial Option are encouraged to complete an internship. Those completing the Public Relations Option are required to complete an internship.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Journalism Major News Editorial Option Major, Bachelor of Arts (BA)

Students working toward the BA degree may either major or minor in journalism.

The Journalism major candidate must earn a minor in some other field chosen with the approval of the Journalism advisor. All minors considered. The following minors are pre-approved: Business, Communication Studies, Computer Science, English, Political Science & International Studies, History, Humanities, Psychology, Sociology, Urban and Regional Planning, Visual Communication Design.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRMN 100</td>
<td>EASTERNER STAFF</td>
<td>3</td>
</tr>
<tr>
<td>JRMN 330</td>
<td>PRINCIPLES OF JOURNALISM</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 332</td>
<td>NEWS WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 333</td>
<td>ADVANCED NEWS WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 341</td>
<td>REPORTING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 349</td>
<td>PHOTOJOURNALISM</td>
<td>4</td>
</tr>
<tr>
<td>JRMN 351</td>
<td>THE LAW OF JOURNALISM</td>
<td>4</td>
</tr>
<tr>
<td>JRMN 442</td>
<td>ADVANCED REPORTING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 475</td>
<td>EDITING AND PUBLISHING</td>
<td>4</td>
</tr>
<tr>
<td>JRMN 490</td>
<td>SENIOR CAPSTONE: CRITICAL WRITING</td>
<td>(or other approved Senior Capstone)</td>
</tr>
</tbody>
</table>

Choose from the following—a minimum of 5 credits designed to extend the student’s practical expertise in some field of communication—to be selected in consultation with a Journalism advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRMN 395</td>
<td>INTERNSHIP (5)</td>
<td></td>
</tr>
<tr>
<td>JRMN 400</td>
<td>EASTERNER STAFF LEADERSHIP (this course is repeatable for credit)</td>
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</tr>
<tr>
<td>JRMN 480</td>
<td>NON-FICTION WRITING PROJECTS</td>
<td></td>
</tr>
<tr>
<td>JRMN 499</td>
<td>DIRECTED STUDY</td>
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</table>

Required Supporting Course (choose one)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 309</td>
<td>GRAMMAR FOR PROFESSIONAL WRITERS</td>
<td></td>
</tr>
<tr>
<td>or ENGL 309</td>
<td>GRAMMAR FOR PROFESSIONAL WRITERS</td>
<td></td>
</tr>
<tr>
<td>or TCOM 309</td>
<td>GRAMMAR FOR PROFESSIONAL WRITERS</td>
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Elective Courses

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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>JRMN 334</td>
<td>MAGAZINE ARTICLE WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 451</td>
<td>PUBLIC RELATIONS WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 452</td>
<td>INTRODUCTION TO PUBLIC RELATIONS THEORY</td>
<td></td>
</tr>
<tr>
<td>JRMN 453</td>
<td>ADVANCED PUBLIC RELATIONS THEORY</td>
<td></td>
</tr>
<tr>
<td>JRMN 470</td>
<td>DESKTOP PUBLICATION DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>JRMN 480</td>
<td>NON-FICTION WRITING PROJECTS (Students may not use JRMN 480 to meet both the expertise requirement and an elective.)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 62

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• conduct research and verify reporting to provide citizens the journalistic truth they need to be self-governing;
• write clearly, correctly and concisely about public events and public policy in journalistic styles appropriate for multiple platforms;
• evaluate their work and that of others for accuracy, fairness, clarity, grammatical correctness and Associated Press style;
• analyze and apply the principles of journalism and the laws of freedom of speech and the press in the United States;
• use current journalism tools and technologies effectively to serve audiences of digital and print news organizations.

Journalism Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNM 330</td>
<td>PRINCIPLES OF JOURNALISM</td>
<td>5</td>
</tr>
<tr>
<td>JRNM 332</td>
<td>NEWS WRITING</td>
<td>5</td>
</tr>
</tbody>
</table>

Electives—choose from upper-division JRNM courses. 8

Total Credits 18

Journalism: Public Relations Major, Bachelor of Science (BS)

The Journalism Program participates in an interdisciplinary major in Public Relations. Requirements for the major, when taken under the Journalism Program, are listed below; requirements for a similar major, when taken under the Department of Communication Studies, are listed under that department. The major provides the graduate with the theoretical and applied knowledge and skills required to competently enter the field of public relations in either the profit or not-for-profit sectors.

Note: a minor in Technical Communication is recommended.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 330</td>
<td>INTEGRATED METHODS FOR COMMUNICATION RESEARCH</td>
<td>5</td>
</tr>
<tr>
<td>CMST 430</td>
<td>COMMUNICATION IN ORGANIZATIONS</td>
<td>5</td>
</tr>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 330</td>
<td>PRINCIPLES OF JOURNALISM</td>
<td>5</td>
</tr>
<tr>
<td>JRNM 332</td>
<td>NEWS WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRNM 395</td>
<td>INTERNSHIP</td>
<td>5</td>
</tr>
<tr>
<td>JRNM 451</td>
<td>PUBLIC RELATIONS WRITING</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 452</td>
<td>INTRODUCTION TO PUBLIC RELATIONS THEORY</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 453</td>
<td>ADVANCED PUBLIC RELATIONS THEORY</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 470</td>
<td>DESKTOP PUBLICATION DESIGN</td>
<td>4</td>
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Choose one

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 201</td>
<td>PUBLIC SPEAKING</td>
<td></td>
</tr>
<tr>
<td>CMST 400</td>
<td>MESSAGE DESIGN</td>
<td></td>
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</table>

Choose one 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNM 475</td>
<td>EDITING AND PUBLISHING</td>
<td></td>
</tr>
<tr>
<td>TCOM 409</td>
<td>EDITING IN TECHNICAL COMMUNICATION</td>
<td></td>
</tr>
</tbody>
</table>

Choose one 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 304</td>
<td>ART OF PHOTOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>DESN 350</td>
<td>DIGITAL IMAGING AND PHOTOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>JRNM 349</td>
<td>PHOTOJOURNALISM</td>
<td></td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• research and write clearly and concisely to meet the needs of various audiences;
• demonstrate ability in public speaking and presentation to members of disparate publics in a variety of organizational situations;
• analyze public relations opportunities, issues and environments;
• prepare and execute effective public relations campaigns for multiple platforms and diverse audiences.
Linguistics

Tracey McHenry, Advisor

program page (https://www.ewu.edu/cale/programs/english/english-degrees/minor-linguistics)

211 Q PAT
509.359.2829

Undergraduate Degree

Undergraduate Minor

• Linguistics (p. 132)

Undergraduate Program

Linguistics is a broad-based discipline concerned with the study of language. The minor in linguistics is an interdisciplinary program designed for students who require a background in this field as part of their baccalaureate preparation in an allied discipline. It is also intended for those students, regardless of their major, who have a general interest in language and linguistics.

Required courses in the following programs of study may have prerequisites. Refer to the course description section for clarification.

Linguistics Minor

Note: 1-5 credits in Modern Languages and Literatures courses, as approved by the program advisor, may be applied toward meeting the requirements of the linguistic minor.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ANTH 445</td>
<td>ANTHROPOLOGICAL LINGUISTICS</td>
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<tr>
<td>or ENGL 360</td>
<td>LANGUAGE STRUCTURE AND USE</td>
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</tr>
<tr>
<td>ENGL 459</td>
<td>GRAMMAR FOR TEACHERS</td>
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Electives: 10

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ANTH 446</td>
<td>SOCIOLINGUISTICS</td>
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<tr>
<td>ENGL 460</td>
<td>MODERN GRAMMAR</td>
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<tr>
<td>ENGL 461</td>
<td>SURVEY OF PSYCHOLINGUISTICS</td>
</tr>
<tr>
<td>ENGL 468</td>
<td>HISTORY OF ENGLISH LANGUAGE</td>
</tr>
</tbody>
</table>

Total Credits 20
Modern Languages and Literatures

Florian Preisig, Chair
department page (https://www.ewu.edu/cale/programs/modern-languages)
133 Patterson Hall
509.359.6001

Faculty

Marge E. Andrews, Jose Maria Garcia-Sanchez, Margaret L. Heady, Miguel A. Novella, Gina M. Petrie, Florian Preisig, Jose Rojas, Natalia Ruiz-Rubio, Parker D. Shaw, Jody Stewart-Strobelt, Teiko K. Stradling, Sally A. Winkle.

Undergraduate Degrees

Bachelor of Arts (BA)

• French (p. 135)
• Spanish (p. 137)

Bachelor of Arts in Education (BAE)

• French/Elementary or Secondary (p. 135)
• Spanish/Elementary or Secondary (p. 138)

Minors

• French (p. 135)
• French/Elementary or Secondary (p. 137)
• German (p. 137)
• German/Elementary or Secondary (p. 137)
• Japanese (p. 137)
• Spanish (p. 138)

Undergraduate Programs

Major and Minor Programs; Basic Language Instruction

The Department of Modern Languages and Literatures offers full major programs in French and Spanish, leading to the Bachelor of Arts and the Bachelor of Arts in Education. Minor programs in German and Japanese are also available. Graduate work leading to the Master of Education in French is offered in summer sessions as well as during the academic year (see Graduate Program listed below).

The Department of Modern Languages and Literatures promotes several kinds of values within the academic community and the pursuit of these values constitutes, in a broad sense, the educational mission of the department.

Grade Requirement for Majors and Minors: cumulative average ≥2.50.

Practical Values:

• the instruction of basic, intermediate and advanced foreign or second language skills allows students to acquire practical knowledge in the speaking, listening comprehension, reading and writing of the target language.

Intellectual Values:

• through all levels of learning in language and literature programs the student pursues;
• an understanding about the phenomenon of language,
• enhanced skills in inquiry, analysis and the exercise of critical faculties and
• an understanding about the individual nature of the more specialized discourse in cultural and literary studies.

Aesthetic Values:

• the study of the literature and of other creative forms of human expression associated with a given national culture promotes greater discrimination and greater enjoyment in aesthetic experience.

Cultural Values:

• the language, literature and culture courses within the language program promote;
• the knowledge and appreciation of cultural history and
• the awareness of the ideas, manners, customs, skills and other cultural attributes that define a particular people as well as a sensitivity to the phenomenon of cultural diversity.

Study Abroad Opportunities

The Department of Modern Languages and Literatures recommends that students complete the equivalent of at least two years of university language study before taking advantage of a study abroad program.

Summer study abroad programs are available in France at the University of Nice, and in Spain at the Colegio Delibes. Eastern also has established student exchanges with one or more universities in Australia, Japan, Mexico and Germany (as well as with several universities where English is the language of instruction). Since there are often such programs in the development stage and since students have access to the study abroad programs of other American universities as well, students who are interested in exchange opportunities should check with Modern Languages and Literatures and with the Study Abroad Office for the latest information.

Placement in Language Courses

Students are welcome to consult with the chair of the department and/or with a language program faculty member in advance of enrollment. The Department of Modern Languages and Literatures is in Patterson Hall, suite 133. The reception number of the department is 509.359.2481. The phone numbers and email addresses of the chair and program faculty are also available on the university’s website.

When students enroll first enroll in a language course they should follow the guidelines below. If they are in any doubt about appropriate placement, they should consult with their teachers during the first day or two of the quarter.

The first-and/or second-year courses in languages need to be taken in a sequence. The information below intends to provide guidelines for students in determining where they should place themselves in a language course sequence, based on where they ended previous language study. (A separate set of guidelines—Advanced Placement (AP) Test Credit—governs credit and placement for students who have taken the national AP Test.)

No Previous Study: students who have no prior study or knowledge of a language should begin study with 101, normally offered only fall quarter.
High School Language Experience
The state of Washington has established equivalency standards for high school and college/university language instruction. Under those official standards, one year of high school language study equals one quarter of university study; two years of high school equal two quarters at university; three years high school equal the entire first-year college/university sequence.

The following guidelines show where students should begin university study, according to their high school language background. Students ought normally to begin at the highest level indicated. This makes them eligible for maximum Proficiency Placement Credit (see below). They may elect to begin at a lower level and/or be advised to do so for reasons of weak background and/or a considerable lapse of time between high school study and university enrollment.

Students with one year of high school language study should place themselves in a 102 section (normally winter quarter) at EWU. After completing 102, they become eligible for proficiency placement credit. They may also elect to begin with 101 (fall quarter).

Students with two years of high school study should place themselves in a 103 section (spring quarter) at EWU. After completing 103, they become eligible for proficiency placement credit. They may also elect to begin with 102 (winter quarter), but they must have a written waiver from the Department of Modern Languages and Literatures in order to receive credit if they begin with 101.

Students with three years of high school study should place themselves in a 201 section (fall quarter) at EWU. After completing 201, they become eligible for proficiency placement credit. They may also elect to begin with 103 (spring quarter), but they must have a written waiver from the Department of Modern Languages and Literatures in order to receive credit if they begin with 102 or lower.

Students with more than three years of high school study should place themselves in a 201 section (fall quarter) at EWU. After completing 201, they become eligible for proficiency placement credit. They must have a written waiver from the Department of Modern Languages and Literatures in order to receive credit if they begin with 103 or lower.

College/University Language Experience
Students who have prior university credit for language study may not repeat equivalent courses at EWU for additional credit. They should continue language study in sequence from the point they ended previous study.

Other Intermediate or Advanced Language Experience
Students who believe that they have attained intermediate or advanced knowledge in a language through previous experience may take the proficiency test offered by a program or otherwise consult the program faculty before or at the time of initial enrollment in language courses. (A separate set of guidelines deals with Proficiency Placement Credit at the second-year level.)

Proficiency Placement Credit
The Department of Modern Languages and Literatures offers proficiency placement credit to students who enter EWU with some prior training and knowledge of foreign languages at the first- and/or second-year levels. These guidelines explain the conditions under which students may receive placement credit for previous language study.

First-Year Language Study
Students who through prior training or knowledge are able to skip 101, 102 and/or 103 classes in any foreign language may receive proficiency placement credit for these classes. To do this, they must complete an equivalent number of credit hours in the language program in question at appropriately higher course levels in the Department of Modern Languages and Literatures at EWU. The maximum proficiency placement credit for first-year study in one language is 15 credits.

Proficiency placement credit for first-year language study does not carry a grade and is not assigned a particular course number, but it does appear on the student’s transcript and does count toward the student’s 180 credit hour requirement for graduation.

Second-Year Language Study
Students who believe that they have attained intermediate or advanced knowledge in a language through previous experience may take the proficiency test offered by a program (or otherwise consult the program faculty for proficiency screening) to determine an appropriate placement. We emphasize that it is extremely important for students in this situation to consult with the program faculty before or at the time of initial enrollment in language courses.

Proficiency placement credit for second-year language study carries a grade of PASS (P) for 201, 202 and/or 203 and is awarded contingent:

- on passing the proficiency test or other proficiency screening by the program faculty before or at the time of initial enrollment in language courses and
- on completing a minimum of 5 credits at the 200- and/or upper-division level.

Students who receive a P credit for second-year language study are also eligible for proficiency credit for first-year language study.

A. P. Test Credit
These guidelines to explain how the department awards course credit for students who have scored from 3 to 5 in a given language on the College Board’s Advanced Placement Test.

Students scoring a 3, 4 or 5 may receive credit in French, German, Japanese or Spanish with a grade of P when they matriculate at EWU.

- A score of 3 • may receive credit for 201 (5 credits)
- A score of 4 • may receive credit for 201, 202 (10 credits)
- A score of 5 • may receive credit for 201, 202, 203 (15 credits)

Study Abroad and Core Requirements for Spanish
Students majoring or minoring in Spanish must complete SPAN 310/SPAN 311, SPAN 320 (students going to Latin America)/SPAN 321 (students going to Spain) and GNML 390 on campus. Students staying abroad for more than two consecutive quarters may consult the advisories of the Spanish Program about exceptions to these requirements.

Students studying abroad for less than 10 weeks may have the credits courses transferred, but these will not meet major/minor degree requirements with the exception of 2 credits of conversation courses at the advanced level (SPAN 305) and 5 credits of culture/humanities courses (upper division courses) which are valid as electives.
Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

**French Major, Bachelor of Arts (BA)**

The 45-credit major requires the completion of a minor.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 201</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
<tr>
<td>FREN 202</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
<tr>
<td>FREN 203</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
<tr>
<td>FREN 310</td>
<td><em>Advanced Grammar and Composition</em></td>
<td>4</td>
</tr>
<tr>
<td>FREN 320</td>
<td><em>French Civilization and Culture I</em></td>
<td>4</td>
</tr>
<tr>
<td>or FREN 321</td>
<td><em>French Civilization and Culture II</em></td>
<td></td>
</tr>
<tr>
<td>FREN 330</td>
<td><em>Introduction to French Literature</em></td>
<td>4</td>
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</table>

**Choose from the following**  
9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FREN 430</td>
<td><em>17th Century French Literature and Culture</em></td>
<td></td>
</tr>
<tr>
<td>FREN 431</td>
<td><em>18th Century French Literature and Culture</em></td>
<td></td>
</tr>
<tr>
<td>FREN 433</td>
<td><em>19th Century French Literature and Culture</em></td>
<td></td>
</tr>
<tr>
<td>FREN 497</td>
<td><em>Workshop, Short Course, Conference, Seminar</em></td>
<td></td>
</tr>
<tr>
<td>or FREN 496</td>
<td><em>Experimental Course</em></td>
<td></td>
</tr>
</tbody>
</table>

**Electives**  
9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FREN 305</td>
<td><em>French Conversation</em></td>
<td></td>
</tr>
<tr>
<td>FREN 306</td>
<td><em>French Conversation</em></td>
<td></td>
</tr>
<tr>
<td>FREN 321</td>
<td><em>French Civilization and Culture II</em></td>
<td></td>
</tr>
<tr>
<td>FREN 496</td>
<td><em>Experimental Course</em></td>
<td></td>
</tr>
<tr>
<td>or FREN 497</td>
<td><em>Workshop, Short Course, Conference, Seminar</em></td>
<td></td>
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</table>

**Total Credits**

45

The 60-credit major does not require the completion of a minor.

**Required Courses**

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
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<td><em>French Grammar and Composition</em></td>
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</tr>
<tr>
<td>FREN 202</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
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<td>FREN 203</td>
<td><em>French Grammar and Composition</em></td>
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</tr>
<tr>
<td>FREN 310</td>
<td><em>Advanced Grammar and Composition</em></td>
<td>4</td>
</tr>
<tr>
<td>FREN 320</td>
<td><em>French Civilization and Culture I</em></td>
<td>4</td>
</tr>
<tr>
<td>or FREN 321</td>
<td><em>French Civilization and Culture II</em></td>
<td></td>
</tr>
<tr>
<td>FREN 330</td>
<td><em>Introduction to French Literature</em></td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives: choose courses above FREN 300.**

33 credits

**Total Credits**

60

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

• demonstrate proficiency in the oral language skills of listening and speaking;
• demonstrate proficiency in writing and reading;
• demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study;
• demonstrate an understanding of the interconnectedness of language, culture, history and literature;
• apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic;
• demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways.

**French Minor**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 201</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
<tr>
<td>FREN 202</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
<tr>
<td>FREN 203</td>
<td><em>French Grammar and Composition</em></td>
<td>5</td>
</tr>
</tbody>
</table>

**Required Electives: choose upper-division FREN**

2 credits

**Total Credits**

17

**French/Elementary or Secondary Major, Bachelor of Arts in Education (BAE)**

Students may choose either the Elementary or the Secondary Core.

This major satisfies the endorsement for preschool to grade 12.

**Notes:**

• students who do not have sufficient high school language preparation to begin FREN 201 will require more than 12 quarters to complete the BAE; students who want to have a second endorsement in a minor field will require more than 12 quarters to complete the BAE;
• students preparing for teaching certification in a language should be aware that they will need to pass the ACTFL written and oral tests before beginning student teaching—see the department webpage or contact the department chair or a language program advisor for more information.

**Required Elementary Education Core**

30-credit multicultural education field requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 390</td>
<td><em>Art in the Elementary School</em></td>
<td>3</td>
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<tr>
<td>EDUC 200</td>
<td><em>Admission to Teacher Education</em></td>
<td>7</td>
</tr>
<tr>
<td>&amp; EDUC 303</td>
<td><em>Foundations of Assessment</em></td>
<td></td>
</tr>
<tr>
<td>&amp; EDUC 308</td>
<td><em>Foundations of Elementary Classroom Management</em> (these three courses must be taken concurrently)</td>
<td></td>
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<tr>
<td>EDUC 201</td>
<td><em>Introduction to Education</em></td>
<td>3</td>
</tr>
<tr>
<td>EDUC 304</td>
<td><em>Introduction to Elementary Reading</em></td>
<td>3</td>
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<tr>
<td>EDUC 310</td>
<td><em>Literacy Methods, Management and Assessment in the Elementary School</em></td>
<td>4</td>
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</table>

For information on General Education, see Undergraduate Degree (p. 39).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 338 &amp; EDUC 339</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)</td>
<td>9</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
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<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
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<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
<td>5</td>
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<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
<td>5</td>
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<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
<td>3</td>
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<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
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<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
<td>5</td>
</tr>
<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
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<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
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</tr>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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<tr>
<td>Required French Courses</td>
<td></td>
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<tr>
<td>FREN 201</td>
<td>FRENCH GRAMMAR AND COMPOSITION</td>
<td>5</td>
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<tr>
<td>FREN 202</td>
<td>FRENCH GRAMMAR AND COMPOSITION</td>
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<tr>
<td>FREN 203</td>
<td>FRENCH GRAMMAR AND COMPOSITION</td>
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<td>FREN 310</td>
<td>ADVANCED GRAMMAR AND COMPOSITION</td>
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<tr>
<td>FREN 320</td>
<td>FRENCH CIVILIZATION AND CULTURE I</td>
<td>4</td>
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<tr>
<td>FREN 321</td>
<td>FRENCH CIVILIZATION AND CULTURE II</td>
<td>4</td>
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<tr>
<td>FREN 330</td>
<td>INTRODUCTION TO FRENCH LITERATURE</td>
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<tr>
<td>GNML 390</td>
<td>FOREIGN LANGUAGE METHODS</td>
<td>4</td>
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<tr>
<td>FREN 430</td>
<td>17TH CENTURY FRENCH LITERATURE AND CULTURE</td>
<td>9</td>
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<tr>
<td>FREN 431</td>
<td>18TH CENTURY FRENCH LITERATURE AND CULTURE</td>
<td>9</td>
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<tr>
<td>FREN 433</td>
<td>19TH CENTURY FRENCH LITERATURE AND CULTURE</td>
<td>9</td>
</tr>
<tr>
<td>FREN 496</td>
<td>EXPERIMENTAL COURSE</td>
<td>4</td>
</tr>
<tr>
<td>or FREN 497</td>
<td>WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
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<td></td>
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<tr>
<td>FREN 305</td>
<td>FRENCH CONVERSATION</td>
<td>9</td>
</tr>
<tr>
<td>FREN 306</td>
<td>FRENCH CONVERSATION</td>
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<td>FREN 320</td>
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<td>9</td>
</tr>
</tbody>
</table>

This major satisfies the endorsement for preschool to grade 12.

Notes:

- students preparing for teaching certification in a language should be aware that they will need to pass the ACTFL written and oral tests before beginning student teaching—see the department webpage or contact the department chair or a language program advisor for more information;

- students who do not have sufficient high school language preparation to begin FREN 201 will require more than 12 quarters to complete the BAE; students who want to have a second endorsement in a minor field will require more than 12 quarters to complete the BAE.

Required Secondary Education Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 200 &amp; EDUC 303 &amp; EDUC 309</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these must be taken concurrently)</td>
<td>7</td>
</tr>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
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<tr>
<td>EDUC 426</td>
<td>SECONDARY STUDENT TEACHING 7-12</td>
<td>15</td>
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<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
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<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
</tr>
<tr>
<td>Required French Secondary Courses</td>
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</tr>
<tr>
<td>FREN 201</td>
<td>FRENCH GRAMMAR AND COMPOSITION</td>
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<td>FREN 202</td>
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<tr>
<td>GNML 390</td>
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<tr>
<td>FREN 496</td>
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<tr>
<td>FREN 305</td>
<td>FRENCH CONVERSATION</td>
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<td>FREN 306</td>
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<tr>
<td>FREN 320</td>
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<tr>
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<td>or FREN 497</td>
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<td>9</td>
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</tbody>
</table>

This major satisfies the endorsement for preschool to grade 12.

Notes:

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

...
Note: see Education for additional SLOs.

- apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic;
- demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways;
- apply knowledge of language teaching techniques, methods and materials; demonstrate and apply knowledge of grammatical concepts and structures in preparation for the teaching profession;
- demonstrate proficiency in the oral language skills of listening and speaking; demonstrate proficiency in writing and reading;
- demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study; demonstrate an understanding of the interconnectedness of language, culture, history and literature.

**French/Elementary or Secondary Minor**

This minor satisfies the endorsement for preschool to grade 12.

**Required Courses**

<table>
<thead>
<tr>
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</tr>
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<td>FREN 310</td>
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<td>FREN 320</td>
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<tr>
<td>GNML 390</td>
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**Total Credits** 29

**German Minor**

**Required Courses**

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<thead>
<tr>
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<tr>
<td>GERM 202</td>
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**Electives—select course above GERM 300.** 2

**Total Credits** 17

**Japanese Minor**

**Required Courses**

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<td>JAPN 202</td>
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**Total Credits** 15

**Spanish Major, Bachelor of Arts (BA)**

**The 45-credit major requires the completion of a minor.**

**Required Courses**

<table>
<thead>
<tr>
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<tr>
<td>or SPAN 339</td>
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<tr>
<td>or SPAN 340</td>
<td>INTRODUCTION TO SPANISH LINGUISTICS</td>
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</table>

**Electives—select courses above SPAN 300** 11

**Total Credits** 45

**The 60-credit major does not require the completion of a minor.**

**Required Courses**

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<td>SPAN 310</td>
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<td>SPAN 311</td>
<td>ADVANCED GRAMMAR AND COMPOSITION</td>
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<td>SPAN 321</td>
<td>SPANISH AMERICAN CIVILIZATION AND CULTURE</td>
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Spanish Minor

Required Courses

SPAN 201  SECOND-YEAR SPANISH  5
SPAN 202  SECOND-YEAR SPANISH  5
SPAN 203  INTRODUCTION TO ADVANCED SPANISH  5
Electives—choose courses above SPAN 300  2

Total Credits  17

Spanish/Elementary or Secondary Major, Bachelor of Arts in Education (BAE)

Students can choose either the Elementary or the Secondary Core.

This major satisfies the endorsement for preschool to grade 12.

Notes: students who do not have sufficient high school language preparation to begin SPAN 201 will require more than 12 quarters to complete the BAE; students who want to have a second endorsement in a minor field will require more than 12 quarters to complete the BAE.

Required Elementary Education Core

30–hour multicultural education field requirement

ART 390  ART IN THE ELEMENTARY SCHOOL  3
EDUC 200  ADMISSION TO TEACHER EDUCATION  7
& EDUC 303  and FOUNDATIONS OF ASSESSMENT  7
& EDUC 308  and FOUNDATIONS OF ELEMENTARY  7
CLASSROOM MANAGEMENT (these three courses  7
must be taken concurrently)
EDUC 201  INTRODUCTION TO EDUCATION  3
EDUC 304  INTRODUCTION TO ELEMENTARY READING  3
EDUC 310  LITERACY METHODS, MANAGEMENT AND  4
ASSESSMENT IN THE ELEMENTARY SCHOOL
EDUC 338  LANGUAGE ARTS METHODS, MANAGEMENT AND  9
& EDUC 339  and ASSESSMENT IN THE ELEMENTARY SCHOOL  9
and SOCIAL STUDIES AND SCIENCE METHODS,  9
MANAGEMENT AND ASSESSMENT IN THE  9
ELEMENTARY SCHOOL (must be taken  9
concurrently)
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY  1
EDUC 423  ELEMENTARY STUDENT TEACHING K-8  15
MATH 212  MATHEMATICS FOR ELEMENTARY TEACHERS II  5
MTED 390  METHODS OF TEACHING ELEMENTARY SCHOOL  5
MATHEMATICS
MUSC 450  INTEGRATING MUSIC INTO ELEMENTARY  3
CLASSROOM COURSES
PHED 390  HEALTH AND PHYSICAL EDUCATION IN THE  3
ELEMENTARY SCHOOLS
PSYC 304  EDUCATIONAL PSYCHOLOGY  5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4

Required Spanish/Elementary Courses

EDUC 310  LITERACY METHODS, MANAGEMENT AND  4
ASSESSMENT IN THE ELEMENTARY SCHOOL
EDUC 338  LANGUAGE ARTS METHODS, MANAGEMENT AND  9
& EDUC 339  and ASSESSMENT IN THE ELEMENTARY SCHOOL  9
and SOCIAL STUDIES AND SCIENCE METHODS,  9
MANAGEMENT AND ASSESSMENT IN THE  9
ELEMENTARY SCHOOL (must be taken  9
concurrently)
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY  1
EDUC 423  ELEMENTARY STUDENT TEACHING K-8  15
MATH 212  MATHEMATICS FOR ELEMENTARY TEACHERS II  5
MTED 390  METHODS OF TEACHING ELEMENTARY SCHOOL  5
MATHEMATICS
MUSC 450  INTEGRATING MUSIC INTO ELEMENTARY  3
CLASSROOM COURSES
PHED 390  HEALTH AND PHYSICAL EDUCATION IN THE  3
ELEMENTARY SCHOOLS
PSYC 304  EDUCATIONAL PSYCHOLOGY  5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4

Required Secondary Education Core

30–hour multicultural education field requirement

EDUC 200  ADMISSION TO TEACHER EDUCATION  7
& EDUC 303  and FOUNDATIONS OF ASSESSMENT  7
& EDUC 309  and FOUNDATIONS OF SECONDARY CLASSROOM  7
MANAGEMENT (these three courses must be  7
taken concurrently)
EDUC 201  INTRODUCTION TO EDUCATION  3
EDUC 341  SECONDARY STRATEGIES, MANAGEMENT,  4
ASSESSMENT
EDUC 413  CONTENT AREA LITERACY: MANAGEMENT AND  4
ASSESSMENT FOR SECONDARY EDUCATION  4
CANDIDATES
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY  1
EDUC 426  SECONDARY STUDENT TEACHING 7-12  15
PSYC 304  EDUCATIONAL PSYCHOLOGY  5
### Required Spanish/Secondary Courses

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<thead>
<tr>
<th>Course</th>
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<td>GNML 390</td>
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<td>SPAN 203</td>
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<tr>
<td>or SPAN 339</td>
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**Electives—Choose courses above SPAN 300**  

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**Total Credits**  

<table>
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<tbody>
<tr>
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</table>

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

Note: see Education for additional SLOs.

- apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic;
- demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways;
- apply knowledge of language teaching techniques, methods and materials; demonstrate and apply knowledge of grammatical concepts and structures in preparation for the teaching profession;
- demonstrate proficiency in the oral language skills of listening and speaking; demonstrate proficiency in writing and reading;
- demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study; demonstrate an understanding of the interconnectedness of language, culture, history and literature.
Music

Sheila Woodward, Chair
department page (https://www.ewu.edu/cale/programs/music)
119 Music Bldg.
509.359.7073

Faculty

Jane E. Ellsworth, Kendall Feeney, Stephan R. Friel, Donald F. Goodwin,
Jody C. Graves, Jenny Kellogg, John Marshall, Jonathan N. Middleton,
Steven G. Mortier, Andrew A. Plamondon, Kristina M. Ploeger, Julia D.
Salerno, Randal R. Wagner, Michael V. Waldrop, Sheila C. Woodward,
Wentao Xing.

Undergraduate Degrees

Bachelor of Arts (BA)
- Music Major with Liberal Arts Option (p. 143)

Bachelor of Arts in Education (BAE)
- Music: Instrument, Choral, General-Elementary (p. 149)
- Music: Instrument, Choral, General-Secondary (p. 149)

Bachelor of Music (BM)
In programs leading to the Bachelor of Music, the department seeks to provide thoroughly professional training, in addition to the requirements set for the liberally educated student. Options under this degree include majors in performance and composition. This course of study presupposes that the student will have a strong background in musical performance.
- Instrumental Performance Option (p. 142)
- Music Composition Option (p. 144)
- Piano Performance Option (p. 144)
- Vocal Performance Option (p. 145)

Undergraduate Certificates
- Jazz and Commercial Music (p. 142)

Undergraduate Minors
- Music (p. 149)

Undergraduate Programs

The Department of Music is committed to preparing students for a variety of music related careers. It also seeks to provide music instruction and experience for non majors. Its fully accredited degrees and options are offered for students who wish to become performers, composers, conductors, theorists, teachers, or scholars. MUSC 212 Music in the Humanities is open to all students and can be counted toward the General Education Core Requirements (GECRs). Opportunities also exist for private instruction in voice and instruments, as well as participation in musical ensembles—bands, choirs, orchestra, chamber ensembles and opera. Numerous public concerts and recitals are presented throughout the school year by faculty and students of the Department of Music.

The goal of the department is to provide students with musical instruction and experience of the highest possible quality. Our belief is that the study of music significantly enables students to become informed, responsible and appreciative members of a democratic society—which is a professed goal of EWU. We recognize differing needs of those for whom music is to become a profession and those for whom it will be an avocation or a listener's art.

Facilities

Music students enjoy modern facilities featuring a state of the art piano laboratory with 16 units, 32 practice rooms, electronic music laboratory, five technically-enhanced classrooms and an extensive collection of recordings, scores and music reference materials located in the JFK Library. In addition, the department houses music classrooms, two large rehearsal rooms (vocal and instrumental) and a 250-seat capacity recital hall. The renovated Showalter Hall serves as an additional performance venue, as does the Hargreaves Reading Room.

Opportunities (Scholarships)

The Department of Music has scholarships available to incoming freshmen as well as upperclassmen. For information on audition dates and scholarship details, phone 509.359.2241 or visit our website at ewu.edu/music (http://www.ewu.edu/music)

Employment Outlook or Placement

Our students have fared well in receiving employment following graduation. Students receive employment in music education, music industry, music business and in the field of professional solo or ensemble performing. Though the placement record of graduates of the Department of Music is excellent, employment is not guaranteed just because one receives a degree in music.

Undergraduate Degrees

The Bachelor of Music degree is intended for students planning professional careers as performers or composers. Students entering this major are required to have a high level of competence in their chosen performance area. The Bachelor of Arts in Music is recommended for students seeking general studies in music and/or planning for a graduate teaching degree with certification, or graduate studies in music history and theory.

Performance Concentrations: bassoon, clarinet, euphonium, flute, French horn, oboe, organ, percussion, piano, saxophone, string bass, trombone, trumpet, tuba, viola, violin, cello, guitar, harp and voice.

Accreditation Information

The Department of Music is accredited by the National Association of Schools of Music. The department has been continuously accredited since 1963.

High School and Transfer Student Information

High school students considering a major in music should have a competent level of performance on an instrument or voice. Acceptance to the department is determined by audition. Participation in the school bands, orchestras or choirs is encouraged. Students enrolling as music majors should contact the Department of Music office for advising. This refers to both entering freshmen and transfer students.

Admission Requirements for Transfer Students

Students transferring from community colleges should refer to the EWU Online Transfer Guide at ewu.edu (http://www.ewu.edu). All transfers...
should have enrolled in a major ensemble (band, orchestra or choir) every term of attendance. In addition, you should have taken music lessons in your major performance area. Each transfer student will be administered a theory placement exam before classes begin. In some instances students may be required to repeat some theory classes in order to assure success in the music program upper division classes. In addition, transfer students are required to pass a Piano Proficiency Exam or register for MUSC 120 Piano Class. Transfer students may transfer a maximum of 90 credits.

Major Ensemble Requirement
All students seeking a major in music are required to participate in a major music ensemble appropriate to their principle area of performance each quarter of their university career except during the quarter of student teaching for Music Education majors. Major music ensembles, course numbers and credits are: MUSE 320 Marching Band (1); MUSE 321 Wind Band, (1) MUSE 322 Symphonic Band (1) MUSE 330 Orchestra (1); MUSE 340 Symphonic Choir (1) and MUSE 341 Concert Choir (1). Music Education majors are required to participate for one quarter in a major ensemble outside their principle area of performance.

Instruction Requirements and Information for Instrument or Voice
All students pursuing a major in music are expected to study their primary instrument or voice each quarter in residence with a resident instructor (except during student teaching). Every student who is registered for an applied lesson must be concurrently registered for a major ensemble. At the end of each quarter, students in applied lessons will perform in front of a jury panel made of all the area faculty members. Students seeking upper level applied instruction (300 level and above) must audition for a jury panel and be accepted by that panel by fall of their junior year.

All students must audition for acceptance to the department. Students registered for courses with multiple sections (piano and voice) should contact the instructors prior to pre-registration for correct assignments.

Convocation and Recital Policy
Enrollment in MUSC 110 Convocation and Recital Attendance is required of all music majors for 11 quarters. The required number for transfer students will be determined on an individual basis.

Minimum Grade Standards
The minimum acceptable grade for any music course required for graduation in all majors offered by the Music Department is ≥2.8. This standard also applies to courses transferred from other institutions.

Piano Proficiency Exam
Students must pass a Piano Proficiency Exam as a prerequisite to MUSC 202. Exams are usually taken at the conclusion of the third quarter of MUSC 122. All incoming freshmen and transfer students must take a Piano Placement exam prior to registration. Students may be placed in MUSC 120 or MUSC 121 in order to complete the Piano Proficiency requirements depending on the level. Piano Proficiency Requirements are available outside the piano office room 231.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees
Master of Music (MM)

• Composition Emphasis (p. 145)

• Jazz Studies Emphasis (p. 146)

• Liberal Arts Emphasis (p. 147)

• Music Education Emphasis (p. 147)

• Performance Emphasis (p. 148)

Graduate Program
Jody Graves, Program Director
232 Music Bldg.
509.359.6119

Students intending to pursue the Master of Music degree program should hold an appropriate baccalaureate degree from an accredited institution. Applicants should submit a writing sample of no less than three pages. Ideally, this will be an undergraduate term paper or other essay that contains references to secondary sources that are cited in an accepted scholarly style. If no writing sample of this type is available, another type of sample is acceptable; examples might include program notes, a statement of teaching philosophy for music education applicants, a statement of creative process for composition applicants or any other demonstration of the applicant’s writing ability. Apart from music education students, all students will also take a personal audition or submit an unedited recording of their performance while education applicants should submit a CV with details of at least two years of teaching experience. Students who are interested in teaching careers, performance careers and business careers in music can design a program to suit their needs. The degree is also designed to prepare the student for further graduate study.

Admission Requirements/Preparation
Progress toward the degree will follow the information found in the front of this catalog EWU Graduate Student Summary Guide to Policies and Procedures.

Final Comprehensive Examination
All master’s degrees in music require an oral comprehensive exam covering salient matters in the candidate’s coursework and the candidate’s internship, thesis, performance or other applicable research or performance project(s). The exam will be administered by a committee chaired by the candidate’s advisor as assigned by the Department of Music and including another music faculty representative and an outside faculty representative assigned by the Graduate Office. MUSC 600 Thesis, MUSC 601 Graduate Recital and MUSC 602 Final Master’s Project guidelines are in the Department of Music graduate program handbook.

Notes:

• students in Music Education Emphasis should take MUSC 521 Research Design in Music Education.

• students in the Composition Emphasis must take MUSC 556 Music of the 20th Century as one of their Music History courses.

• students in the Jazz Studies Emphasis must take MUSC 557 History of Jazz: Styles and Analysis as one of their Music History courses.

• an off-campus option requires advanced signed approval by the Director of Music Education and successful completion of written report.

• Music Education Emphasis students are required to take MUSC 600 Thesis. Prior to commencing research, a thesis proposal must receive
Jazz and Commercial Music Certificate

The Jazz and Commercial Music Certificate is designed to give the music major/minor access to jazz classes and ensembles and increase their skills for the purpose of performing and teaching jazz. The certificate includes a recital experience to enhance students' abilities to apply their knowledge in a performance setting. Students will also perform for a jury (pass/fail) on materials provided through the curriculum.

Note, the following are required:

- Jazz Piano Fundamental Test (Pass/Fail);
- Jury performance—participation must be approved by the director of the Jazz Program;
- Recital—participation must be approved by the director of the Jazz Program.

### Required Courses

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<th>Course Title</th>
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<td>MUSC 103</td>
<td>MUSIC THEORY III</td>
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<td>MUSC 108</td>
<td>INSTRUCTION ON INSTRUMENT OR VOICE (Jazz Piano)</td>
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<td>MUSC 280</td>
<td>BASIC JAZZ ARRANGING</td>
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<td>ADVANCED JAZZ ARRANGING</td>
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<td>MUSC 286</td>
<td>INTRODUCTION TO JAZZ THEORY AND AURAL SKILLS</td>
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<td>MUSC 287</td>
<td>BASIC JAZZ THEORY/IMPROVISATION</td>
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<td>MUSC 288</td>
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<tr>
<td>MUSC 447</td>
<td>JAZZ ENSEMBLE METHODS/MATERIAL</td>
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### Required Ensembles—choose instrumental or vocal

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<tr>
<td>MUSE 301</td>
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<td>REPERTORY JAZZ ENSEMBLE</td>
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<td>MUSE 304</td>
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### Required Ensembles—must be repeated

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### Electives in Area of Interest—choose from the following

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<tbody>
<tr>
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<td>MUSC 108</td>
<td>INSTRUCTION ON INSTRUMENT OR VOICE (Applied Bass)</td>
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Total Credits: 29

### Student Learning Outcomes—students will

- analyze and create arrangements and compositions in the jazz idiom;
- analyze, understand and perform literature through the study of jazz theory and improvisation;
- analyze and perform literature in a variety of ensemble settings with varying historical perspectives;
- analyze and perform on various idiomatic instruments;
- apply knowledge and skills gained for a jury and during a recital.

### Music Major with Instrumental Performance Option, Bachelor of Music (BM)

Note: admission to Performance Major.

In programs leading to the Bachelor of Music, the department seeks to provide thoroughly professional training, in addition to the requirements set for the liberally educated student. Options under this degree include majors in performance and composition. This course of study presupposes that the student will have a strong background in musical performance.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUSC 101</td>
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<td>MUSC 102</td>
<td>MUSIC THEORY II</td>
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<td>MUSIC THEORY III</td>
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<td>MUSC 104</td>
<td>SIGHT SINGING AND AURAL SKILLS</td>
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<td>Junior Recital</td>
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<td>MUSC 470</td>
<td>SENIOR RECITAL</td>
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<tr>
<td>MUSC 491</td>
<td>MUSIC SENIOR THESIS</td>
<td>4</td>
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</table>
Select one of the following courses applicable to the student's major instrument

- MUSC 462 STRING PEDAGOGY
- MUSC 463 WOODWIND PEDAGOGY
- MUSC 464 BRASS PEDAGOGY
- MUSC 468 PERCUSSION PEDAGOGY

Applied Music Requirements—must be repeated

- MUSC 140 APPLIED INSTRUCTION ON INSTRUMENT OR VOICE
- MUSC 240 APPLIED INSTRUCTION ON INSTRUMENT OR VOICE
- MUSC 340 APPLIED INSTRUCTION ON INSTRUMENT OR VOICE

Major Music Ensemble Requirements—must be repeated

- MUSE 321 WIND ENSEMBLE
- MUSE 322 SYMPHONIC BAND
- MUSE 330 ORCHESTRA
- MUSE 340 SYMPHONIC CHOIR
- MUSE 341 CONCERT CHOIR

Minor Music Ensemble Requirements—choose a minimum of two

- MUSE 330 ORCHESTRA
- MUSE 340 SYMPHONIC CHOIR
- MUSE 341 CONCERT CHOIR
- MUSE 350 OPERA
- MUSE 360 BRASS QUINTET
- MUSE 361 CELLO ENSEMBLE
- MUSE 362 CHAMBER MUSIC
- MUSE 363 WOODWIND CHAMBER ENSEMBLE
- MUSE 364 DOUBLE BASS ENSEMBLE
- MUSE 365 FLUTE ENSEMBLE
- MUSE 366 GUITAR ENSEMBLE
- MUSE 367 PERCUSSION ENSEMBLE
- MUSE 368 PIANO ENSEMBLE
- MUSE 369 SAXOPHONE ENSEMBLE
- MUSE 370 TROMBONE CHOIR
- MUSE 371 TRUMPET ENSEMBLE
- MUSE 372 TUBA/EUPHONIUM CHOIR
- MUSE 373 HORN ENSEMBLE
- MUSE 380 POP COMBO

Total Credits 89-93

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- perform on their primary instrument in a variety of mediums and musical periods -Instrumental Performance Option;
- compose music in a variety of mediums and musical periods-Music Composition Option;
- compose music effectively in all genres and musical periods-Music Composition Option;
- perform on voice in a variety of mediums and musical periods-Vocal Performance Option.

Music Major with Liberal Arts Option, Bachelor of Arts (BA)

This is a program designed for the study of music within a liberal arts curriculum.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

- MUSC 101 MUSIC THEORY I 3
- MUSC 102 MUSIC THEORY II 3
- MUSC 103 MUSIC THEORY III 3
- MUSC 104 SIGHT SINGING AND AURAL SKILLS 1
- MUSC 105 SIGHT SINGING AND AURAL SKILLS II 1
- MUSC 106 SIGHT SINGING AND AURAL SKILLS III 1
- MUSC 110 CONVOCATION AND RECITAL ATTENDANCE (must pass 11 quarters)
- MUSC 121 PIANO CLASS II FOR MAJORS 1
- MUSC 122 PIANO CLASS III FOR MAJORS 1

Piano Proficiency 0

- MUSC 201 MUSIC THEORY IV 3
- MUSC 202 MUSIC THEORY V 3
- MUSC 203 MUSIC THEORY VI 3
- MUSC 204 SIGHT SINGING AND AURAL SKILLS IV 1
- MUSC 205 SIGHT SINGING AND AURAL SKILLS V 1
- MUSC 250 MUSIC HISTORY AND LITERATURE I 3
- MUSC 251 MUSIC HISTORY AND LITERATURE II 3
- MUSC 252 MUSIC HISTORY AND LITERATURE III 3
- MUSC 310 BASIC CONDUCTING SKILLS 2
- MUSC 357 MUSIC IN DIVERSE CULTURES 3
- MUSC 491 MUSIC SENIOR THESIS 4
- MUSC 490 SENIOR CAPSTONE 0

Applied Music Requirements—must be repeated

- MUSC 108 INSTRUCTION ON INSTRUMENT OR VOICE
- MUSC 208 INSTRUCTION ON VOICE OR INSTRUMENT
- MUSC 308 INSTRUCTION ON INSTRUMENT OR VOICE
- MUSC 408 INSTRUCTION ON INSTRUMENT OR VOICE

Ensembles Requirements—must be repeated

- MUSE 321 WIND ENSEMBLE
- MUSE 322 SYMPHONIC BAND
- MUSE 330 ORCHESTRA
- MUSE 340 SYMPHONIC CHOIR
- MUSE 341 CONCERT CHOIR

Electives at the 300- and 400-level

- Total Credits 81

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- compose, perform, or teach music effectively;
• demonstrate technical and esthetic understanding of music.

Music Major with Music Composition Option, Bachelor of Music (BM)

A program with a liberal arts orientation designed to prepare students for teaching at the college level, the composition and presentation of concert music, careers in film scoring and theater/dance work. This course of study presupposes that the student will have a strong background in musical performance. Entry into this degree program is by departmental interview and with the consent of the head of composition studies.

Required Courses

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<td>MUSIC THEORY II</td>
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Total Credits: 81-89

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• explore and develop creative processes for music composition.

Music Major with Piano Performance Option, Bachelor of Music (BM)

Note: admission to Performance Major.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
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Total Credits: 6

Major Music Ensemble Requirements—must be repeated

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<td>MUSE 322</td>
<td>SYMPHONIC BAND</td>
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Total Credits: 12

Note: if a year of MUSE 338 is substituted for a year of a Major ensemble.
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• perform on their primary instrument in a variety of mediums and musical periods - Instrumental Performance Option;
• compose music in a variety of mediums and musical periods - Music Composition Option;
• compose music effectively in all genres and musical periods - Music Composition Option;
• perform on voice in a variety of mediums and musical periods - Vocal Performance Option.

Music Major with Vocal Performance Option, Bachelor of Music (BM)

Note:

• this Option requires more than 12 quarters to complete at 15-16 credits per quarter;
• admission to Performance Major.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<tr>
<td>MUSC 470</td>
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</tbody>
</table>

Student Learning Outcomes—students will

• perform on their primary instrument in a variety of mediums and musical periods - Instrumental Performance Option;
• compose music in a variety of mediums and musical periods - Music Composition Option;
• compose music effectively in all genres and musical periods - Music Composition Option;
• perform on voice in a variety of mediums and musical periods - Vocal Performance Option.

Music with Composition Emphasis, Master of Music (MM)

Notes:

• all master’s degrees in music require an oral comprehensive exam;
• students in the Composition Emphasis must take MUSC 556 Music of the 20th Century as one of their Music History courses;
• many courses must be repeated.

Required Program Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 520</td>
<td>RESEARCH TECHNIQUES AND BIBLIOGRAPHY IN MUSIC</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 521</td>
<td>RESEARCH DESIGN IN MUSIC EDUCATION</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: the above option requires more than 12 quarters to complete at 15–16 credits per quarter.
Music with Jazz Studies Emphasis, Master of Music (MM)

### Music History—choose from the following

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<tr>
<td>MUSC 538</td>
<td>TOPICS IN MUSIC HISTORY</td>
</tr>
<tr>
<td>MUSC 551</td>
<td>MUSIC OF THE MEDIEVAL ERA</td>
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<td>MUSC 556</td>
<td>MUSIC OF THE 20TH CENTURY</td>
</tr>
<tr>
<td>MUSC 557</td>
<td>JAZZ STYLES AND ANALYSIS</td>
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### Music Theory/Composition

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MUSC 560</td>
<td>HISTORICAL ANALYSIS OF MUSICAL STRUCTURE</td>
</tr>
<tr>
<td>MUSC 561</td>
<td>COUNTERPOINT</td>
</tr>
</tbody>
</table>

### Three Quarters of Graduate Ensemble Participation

- MUSE 520 MARCHING BAND
- or MUSE 521 WIND ENSEMBLE
- or MUSE 522 SYMPHONIC BAND
- or MUSE 530 ORCHESTRA
- or MUSE 540 SYMPHONIC CHOIR
- or MUSE 541 CONCERT CHOIR

### Music Thesis/Recital

- MUSC 600 THESIS
- or MUSC 601 GRADUATE RECITAL
- or MUSC 602 FINAL MASTER'S PROJECT

### Required Program Core

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Note: Jazz Studies Emphasis students must take MUSC 557.

### Required Composition Emphasis Core

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<tr>
<td>MUSC 529</td>
<td>APPLIED LESSON (must be repeated for three quarters)</td>
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- or MUSC 530 INSTRUCTION ON INSTRUMENTS OR VOICE
- MUSC 510 ADVANCED CONDUCTING
- MUSC 565 ADVANCED ORCHESTRA
- MUSC 568 ADVANCED COMPOSITIONAL TECHNIQUES (must be repeated for 2 credits quarterly)

### Electives—approved in consultation with area advisor and graduate program coordinator

Total Credits 54

### Student Learning Outcomes—students will

- demonstrate graduate level musicianship in the understanding, knowledge and performance of music;
- demonstrate critical and creative thinking, particularly in the chosen area of emphasis.

### Required Jazz Studies Emphasis Core

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- or MUSC 530 INSTRUCTION ON INSTRUMENTS OR VOICE
- MUSC 571 JAZZ ENSEMBLE DIRECT/CONDUCT
- MUSC 574 GRADUATE JAZZ ARRANGING
- MUSC 695 GRADUATE JAZZ INTERNSHIP (1-5)

Choose Track A or B 15

#### Track A—Performance

- MUSC 573 GRADUATE IMPROVISATION-TTRANSCRIPTION
- three quarters of Large Jazz Ensemble
- six quarters of Jazz Combo
- MUSC electives

#### Track B—Pedagogy

- MUSC 532 PEDAGOGY OF COLLEGIATE TEACHING
- MUSC 558 HISTORY OF JAZZ
- MUSC 572 GRADUATE IMPROVISATION-PEDAGOGY
- Plus choose a minimum of three courses from the following
- MUSC 575 STRING PEDAGOGY-BASS
- MUSC 576 JAZZ PIANO PEDAGOGY

- students in the Jazz Studies Emphasis must take MUSC 557 History of Jazz: Styles and Analysis as one of their Music History courses.
- many courses must be repeated.

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Note: Jazz Studies Emphasis students must take MUSC 557.

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Note: Jazz Studies Emphasis students must take MUSC 557.

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Choose Track A or B 15

#### Track A—Performance

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- three quarters of Large Jazz Ensemble
- six quarters of Jazz Combo
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#### Track B—Pedagogy

- MUSC 532 PEDAGOGY OF COLLEGIATE TEACHING
- MUSC 558 HISTORY OF JAZZ
- MUSC 572 GRADUATE IMPROVISATION-PEDAGOGY
- Plus choose a minimum of three courses from the following
- MUSC 575 STRING PEDAGOGY-BASS
- MUSC 576 JAZZ PIANO PEDAGOGY

- students in the Jazz Studies Emphasis must take MUSC 557 History of Jazz: Styles and Analysis as one of their Music History courses.
- many courses must be repeated.
MUSC 577  DRUM SET PEDAGOGY
MUSC 578  SAXOPHONE PEDAGOGY
MUSC 579  BRASS PEDAGOGY

Total Credits 54

Student Learning Outcomes—students will

• demonstrate graduate level musicianship in the understanding, knowledge and performance of music;
• demonstrate critical and creative thinking, particularly in the chosen area of emphasis.

Music with Liberal Arts Emphasis, Master of Music (MM)

Note:

• all master’s degrees in music require an oral comprehensive exam;
• students may focus on areas such as Music History, Music Theory or a customized program.

Required Program Core

Music Research—choose from the following 3

MUSC 520  RESEARCH TECHNIQUES AND BIBLIOGRAPHY IN MUSIC
MUSC 521  RESEARCH DESIGN IN MUSIC EDUCATION

Music History—choose from the following 6

MUSC 538  TOPICS IN MUSIC HISTORY
MUSC 551  MUSIC OF THE MEDIEVAL ERA
MUSC 552  MUSIC OF THE RENAISSANCE ERA
MUSC 553  MUSIC OF THE BAROQUE PERIOD
MUSC 554  MUSIC OF THE CLASSICAL PERIOD
MUSC 555  MUSIC OF THE ROMANTIC PERIOD
MUSC 556  MUSIC OF THE 20TH CENTURY
MUSC 557  JAZZ STYLES AND ANALYSIS

Music Theory/Composition

MUSC 560  HISTORICAL ANALYSIS OF MUSICAL STRUCTURE 3
MUSC 561  COUNTERPOINT 2

Three Quarters of Graduate Ensemble Participation 3

Note: an off-campus option requires advanced signed approval by the Director of Music Education and successful completion of written report. These are 1 credit and must be repeated.

MUSE 520  MARCHING BAND
or MUSE 521  WIND ENSEMBLE
or MUSE 522  SYMPHONIC BAND
or MUSE 530  ORCHESTRA
or MUSE 540  SYMPHONIC CHOIR
or MUSE 541  CONCERT CHOIR

Music Thesis/Recital

Note: prior to commencing research, a thesis proposal must receive approval from the thesis committee and, if human subjects are involved, by the IRB.

MUSC 600  THESIS 5
or MUSC 601  GRADUATE RECITAL
or MUSC 602  FINAL MASTER'S PROJECT

General/Liberal Arts Core

Three quarters of applied instruction—choose one of the following

MUSC 529  APPLIED LESSON (must be repeated) 3
or MUSC 530  INSTRUCTION ON INSTRUMENTS OR VOICE

Electives in Music

Electives in supportive areas (music or non-music) approved in consultations among the student, the student’s area advisor(s) and the graduate program advisor 15

Total Credits 50

Student Learning Outcomes—students will

• demonstrate graduate level musicianship in the understanding, knowledge and performance of music;
• demonstrate critical and creative thinking, particularly in the chosen area of emphasis.

Music with Music Education Emphasis, Master of Music (MM)

Notes:

• all master’s degrees in music require an oral comprehensive exam.
• students in Music Education Emphasis should take MUSC 521 Research Design in Music Education.
• an off-campus option requires advanced signed approval by the Director of Music Education and successful completion of written report.
• Music Education Emphasis students are required to take MUSC 600 Thesis. Prior to commencing research, a thesis proposal must receive approval from the thesis committee and, if human subjects are involved, by the IRB.

Required Program Core

Music Research—students in Music Education Emphasis should take MUSC 521

MUSC 520  RESEARCH TECHNIQUES AND BIBLIOGRAPHY IN MUSIC
MUSC 521  RESEARCH DESIGN IN MUSIC EDUCATION

Music History—choose from the following

MUSC 538  TOPICS IN MUSIC HISTORY
MUSC 551  MUSIC OF THE MEDIEVAL ERA
MUSC 552  MUSIC OF THE RENAISSANCE ERA
MUSC 553  MUSIC OF THE BAROQUE PERIOD
MUSC 554  MUSIC OF THE CLASSICAL PERIOD
MUSC 555  MUSIC OF THE ROMANTIC PERIOD
MUSC 556  MUSIC OF THE 20TH CENTURY
MUSC 557  JAZZ STYLES AND ANALYSIS

Music Theory/Composition

MUSC 560  HISTORICAL ANALYSIS OF MUSICAL STRUCTURE 3
MUSC 561  COUNTERPOINT 2

Three Quarters of Graduate Ensemble Participation 3

Note: an off-campus option requires advanced signed approval by the Director of Music Education and successful completion of written report. These are 1 credit and must be repeated.

MUSE 520  MARCHING BAND
Music Thesis/Recital
Note: Music Education Emphasis students are required to take MUSC 600 Thesis. Prior to commencing research, a thesis proposal must receive approval from the thesis committee and, if human subjects are involved, by the IRB.

MUSC 600 THESIS 5
or MUSC 601 GRADUATE RECITAL
or MUSC 602 FINAL MASTER’S PROJECT

Music Education Emphasis Core
MUSC 510 ADVANCED CONDUCTING 3
MUSC 531 ALTERNATIVE APPROACHES TO MUSIC EDUCATION 3
MUSC 532 PEDAGOGY OF COLLEGIATE TEACHING 3
MUSC 546 SOCIOLOGICAL FOUNDATIONS OF MUSIC 3
MUSC 547 THE PSYCHOLOGY OF MUSIC LEARNING AND TEACHING 3
MUSC 550 PHILOSOPHICAL FOUNDATIONS IN MUSIC EDUCATION 5

Music Education Electives 8
Note: any graduate music or music education electives may be chosen with approval for the Director of Music Education.

MUSC 529 APPLIED LESSON (must be repeated)
MUSC 530 INSTRUCTION ON INSTRUMENTS OR VOICE
MUSC 521 WIND ENSEMBLE
MUSC 522 SYMPHONIC BAND
MUSC 530 ORCHESTRA
MUSC 540 SYMPHONIC CHOIR
MUSC 541 CONCERT CHOIR

Music Thesis/Recital All Masters students must write a thesis, or supporting recital document, or submit a Master’s Project and must pass an oral comprehensive examination.

MUSC 600 THESIS
or MUSC 601 GRADUATE RECITAL
or MUSC 602 FINAL MASTER’S PROJECT

Requirements for Performance Emphasis
MUSC 510 ADVANCED CONDUCTING 3
MUSC 530 INSTRUCTION ON INSTRUMENTS OR VOICE (must be repeated six times) 3-6

Three Quarters of Graduate Ensemble Participation 3

Vocal or Instrumental Pedagogy—Piano majors take 6 credits of piano pedagogy; other instrumentalists and vocalists take 3 credits of the appropriate pedagogy course in the series.

MUSC 564A PIANO PEDAGOGY I
MUSC 564B PIANO PEDAGOGY II
MUSC 564C PIANO PEDAGOGY III
MUSC 564D PEDAGOGY VOCAL
MUSC 564E PEDAGOGY STRINGS
MUSC 564F PEDAGOGY WOODWINDS
MUSC 564G PEDAGOGY BRASS
MUSC 564H PEDAGOGY PERCUSSION

Language Diction Proficiency (voice majors only) 0

Approved Electives—To be determined in consultation among the student, the student’s area advisor(s), and the graduate program advisor.

MUSC 537 CONTEMPORARY MUSIC ENSEMBLE (strongly recommended)

Total Credits 54-57

Student Learning Outcomes—students will

• demonstrate graduate level musicianship in the understanding, knowledge and performance of music;
• demonstrate critical and creative thinking, particularly in the chosen area of emphasis.

Music Minor

Notes:
• Music Minors must audition on their applied instrument with the appropriate faculty and be accepted into a studio;
• Music Minors must declare their minor with the music office, and meet with the Chair for approval and to arrange advising with the appropriate faculty. (This will allow the intended minor to show in Banner, and will assist with graduation advising.)
• student files will be maintained in the music office as they are for the music majors;
• MUSC 212 also counts as a GECR.

Required Courses
MUSC 101 MUSIC THEORY I 3
MUSC 102 MUSIC THEORY II 3
MUSC 103 MUSIC THEORY III 3
MUSC 104 SIGHT SINGING AND AURAL SKILLS 1
MUSC 105 SIGHT SINGING AND AURAL SKILLS II 1
MUSC 106 SIGHT SINGING AND AURAL SKILLS III 1
MUSC 120 PIANO CLASS I FOR MAJORS (*Students may be placed in a different piano class depending on ability.) 1
MUSC 212 MUSIC IN THE HUMANITIES (counts as a GECR) 5

Applied Instruction must be taken for three quarters.
MUSC 108 INSTRUCTION ON INSTRUMENT OR VOICE (must be taken three times) 3

Appropriate Major Ensemble must be taken concurrently with MUSC 108.
MUSE 320 MARCHING BAND 3
MUSE 321 WIND ENSEMBLE
MUSE 322 SYMPHONIC BAND
MUSE 330 ORCHESTRA
MUSE 340 SYMPHONIC CHOIR
MUSE 341 CONCERT CHOIR

Electives—choose six additional credits of music electives, in consultation with your music advisor. 6

Total Credits 30

Music: Instrument, Choral, General-Elementary or Secondary Major, Bachelor of Arts in Education (BAE)

Students can choose either the Elementary or the Secondary Core.

Notes:
• students in this program are excused from major ensemble participation during the quarter of student teaching;
• the above option requires more than 12 quarters to complete at 15–16 credits per quarter.

Required Elementary Education Core

30–hour multicultural education field requirement
ART 390 ART IN THE ELEMENTARY SCHOOL 3
EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 308 and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 304 INTRODUCTION TO ELEMENTARY READING 3
EDUC 310 LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL 4
EDUC 338 LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 423 ELEMENTARY STUDENT TEACHING K-8 15
MATH 212 MATHEMATICS FOR ELEMENTARY TEACHERS II 5
MTED 390 METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS 5
MUSC 450 INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES 3
PHED 390 HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS 3
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Music: Instrumental, Choral, General/Elementary Courses
MUSC 101 MUSIC THEORY I 3
MUSC 102 MUSIC THEORY II 3
MUSC 103 MUSIC THEORY III 3
MUSC 104 SIGHT SINGING AND AURAL SKILLS 1
MUSC 105 SIGHT SINGING AND AURAL SKILLS II 1
MUSC 106 SIGHT SINGING AND AURAL SKILLS III 1
MUSC 110 CONVOCATION AND RECITAL ATTENDANCE 0
MUSC 121 PIANO CLASS II FOR MAJORS 1
MUSC 122 PIANO CLASS III FOR MAJORS 1
MUSC 121 PIANO CLASS II FOR MAJORS 1
Piano Proficiency (0)
MUSC 130 VOICE CLASS (Vocal majors take MUSC 320) 1
or MUSC 320 DICTION FOR SINGERS I
MUSC 201 MUSIC THEORY IV 3
MUSC 202 MUSIC THEORY V 3
MUSC 203 MUSIC THEORY VI 3
MUSC 204 SIGHT SINGING AND AURAL SKILLS IV 1
MUSC 205 SIGHT SINGING AND AURAL SKILLS V 1
MUSC 244 MUSIC TECHNOLOGY 2
MUSC 250 MUSIC HISTORY AND LITERATURE I 3
MUSC 251 MUSIC HISTORY AND LITERATURE II 3
MUSC 252 MUSIC HISTORY AND LITERATURE III 3
MUSC 310 BASIC CONDUCTING SKILLS 2
MUSC 312 ADVANCED CONDUCTING SKILLS 2
MUSC 357 MUSIC IN DIVERSE CULTURES 3
MUSC 441 MUS METH FOR ELEM MUS SPCLST 3
MUSC 445 CHORAL METH/MAT SEC SCHOOL 2
MUSC 446 INSTRUMENTAL METHODS/MATERIALS 2
MUSC 447 JAZZ ENSEMBLE METHODS/MATERIAL 2
MUSC 470 SENIOR RECITAL 1-5
MUSC 491 MUSIC SENIOR THESIS 4

Choose courses from the following 7
MUSC 382 STRINGED INSTRUMENT TECHNIQUES
MUSC 383 WOODWIND INSTRUMENT TECHNIQUES
MUSC 384 BRASS INSTRUMENT TECHNIQUES
MUSC 385 PERCUSSION INSTRUMENT TECHNIQUES

Applied Music Requirements 12
MUSC 108 INSTRUCTION ON INSTRUMENT OR VOICE
MUSC 208 INSTRUCTION ON VOICE OR INSTRUMENT
MUSC 308 INSTRUCTION ON VOICE OR INSTRUMENT
MUSC 408 INSTRUCTION ON INSTRUMENT OR VOICE

Music Ensemble Requirements—must be repeated 12
MUSE 321 WIND ENSEMBLE
MUSE 322 SYMPHONIC BAND
MUSE 330 ORCHESTRA
MUSE 340 SYMPHONIC CHOIR
MUSE 341 CONCERT CHOIR

Note: String, wind and percussion majors in music education shall participate in one quarter of a major vocal ensemble. Vocal and piano majors in music education shall participate in one quarter of a major instrumental ensemble.

Total Credits 159-163

Notes:
• students in this program are excused from major ensemble participation during the quarter of student teaching;
• the above option requires more than 12 quarters to complete at 15–16 credits per quarter.

Required Secondary Education Core
30–hour multicultural education field requirement
EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 309 and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT 4
EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Music: Instrumental, Choral, General Secondary Courses
MUSC 101 MUSIC THEORY I 3
MUSC 102 MUSIC THEORY II 3
MUSC 103 MUSIC THEORY III 3
MUSC 104 SIGHT SINGING AND AURAL SKILLS 1
MUSC 105 SIGHT SINGING AND AURAL SKILLS II 1
MUSC 106 SIGHT SINGING AND AURAL SKILLS III 1
MUSC 110 CONVOCATION AND RECITAL ATTENDANCE 0
MUSC 121 PIANO CLASS II FOR MAJORS 1
MUSC 122 PIANO CLASS III FOR MAJORS 1

Piano Proficiency (0)
MUSC 130 VOICE CLASS (Vocal majors take MUSC 320) 1
or MUSC 320 DICTION FOR SINGERS I
MUSC 201 MUSIC THEORY IV 3
MUSC 202 MUSIC THEORY V 3
MUSC 203 MUSIC THEORY VI 3
MUSC 204 SIGHT SINGING AND AURAL SKILLS IV 1
MUSC 205 SIGHT SINGING AND AURAL SKILLS V 1
MUSC 244 MUSIC TECHNOLOGY 2
MUSC 250 MUSIC HISTORY AND LITERATURE I 3
MUSC 251 MUSIC HISTORY AND LITERATURE II 3
MUSC 252 MUSIC HISTORY AND LITERATURE III 3
MUSC 310 BASIC CONDUCTING SKILLS 2
MUSC 312 ADVANCED CONDUCTING SKILLS 2
MUSC 357 MUSIC IN DIVERSE CULTURES 3
MUSC 441 MUS METH FOR ELEM MUS SPCLST 3
MUSC 445 CHORAL METH/MAT SEC SCHOOL 2
MUSC 446 INSTRUMENTAL METHODS/MATERIALS 2
MUSC 447 JAZZ ENSEMBLE METHODS/MATERIAL 2
MUSC 470 SENIOR RECITAL 1-5
MUSC 491 MUSIC SENIOR THESIS 4

Choose courses from the following 7
MUSC 382 STRINGED INSTRUMENT TECHNIQUES
MUSC 383 WOODWIND INSTRUMENT TECHNIQUES
MUSC 384 BRASS INSTRUMENT TECHNIQUES
MUSC 385 PERCUSSION INSTRUMENT TECHNIQUES

Applied Music Requirements 12
MUSC 108 INSTRUCTION ON INSTRUMENT OR VOICE
MUSC 208 INSTRUCTION ON VOICE OR INSTRUMENT
MUSC 308 INSTRUCTION ON VOICE OR INSTRUMENT
MUSC 408 INSTRUCTION ON INSTRUMENT OR VOICE

Music Ensemble Requirements—must be repeated 12
MUSE 321 WIND ENSEMBLE
MUSE 322 SYMPHONIC BAND
MUSE 330 ORCHESTRA
MUSE 340 SYMPHONIC CHOIR
MUSE 341 CONCERT CHOIR

Note: string, wind and percussion majors in music education shall participate in one quarter of a major vocal ensemble. Vocal and piano majors in music education shall participate in one quarter of a major instrumental ensemble.

Total Credits 132-136

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
Note: see Education for additional SLOs.

- demonstrate the ability to teach choral and instrumental music effectively in grades K through 12.
Philosophy

Christopher Kirby, PhD, Director
department page (https://www.ewu.edu/cale/programs/philosophy)
229E Patterson
509.359.6503

Faculty
Kevin S. Decker, Christophe C. Kirby, Terrance MacMullan, Mary Ellen Marinucci.

Undergraduate Degrees
Bachelor of Arts (BA)
- Philosophy (p. 154)
- Interdisciplinary Studies: Philosophical Studies (See Interdisciplinary Studies (p. 323))

Undergraduate Certificate
- Applied Ethics and Practical Philosophy Certificate (p. 153)

Undergraduate Minor
- Philosophy Minor (p. 154)

Undergraduate Program
The Philosophy Program offers general interest courses that deal with our philosophical heritage and contemporary thought and a minor in philosophy that encompasses some principal concerns of the discipline. It also offers a BA in Philosophy and BA in Interdisciplinary Studies (ITDS) with an option in Philosophical Studies that combines intermediate and advanced classes in logic and the history of philosophy with selected offerings from cooperating programs.

The skills learned in philosophy are useful in all academic areas. Immanuel Kant noted that philosophy teaches us to think for ourselves, so that we do not passively receive what we are told. It also encourages us to put ourselves imaginatively in the place of everyone else, so that we occupy the standpoint of universal humanity. Above all, it enjoins us to think consistently. Study of philosophy contributes to a broad, liberal arts education valuable for its own sake as well as a preparation for a career in some related professional, social or humanistic discipline. As an American Philosophical Association pamphlet notes, employees in the business community “want and reward many of the capacities which the study of philosophy develops: for instance, the ability to solve problems, to communicate, to organize ideas and issues, to assess pros and cons and to boil down complex data. These capacities represent transferable skills.” Logical skills are especially beneficial in conceptual professions like accounting and law.

Required courses in the following program of study may have prerequisites. Reference course descriptions section for clarification.

Philosophy Streams
Stream #1: Political Philosophy
This stream concentrates on political philosophy and related topics. Political philosophy examines the nature of moral value, normativity and justice in practical and historical contexts. Political philosophers also evaluate classical and contemporary political institutions and suggest ways of improving the political life of our society. Students enrolled in this stream will study both the theory and practice of classical and contemporary politics.

ECON 415   HISTORY OF ECONOMIC THOUGHT  5
ECON 417   POLITICAL ECONOMY  5
ECON 424   ECONOMICS OF POVERTY AND DISCRIMINATION  5
HIST 301   HISTORY OF THE PRESENT  5
HIST 303   U.S. HISTORY 1607-1877  5
HIST 304   U.S. HISTORY 1877-PRESENT  5
HIST 305   PATHS TO THE AMERICAN PRESENT  5
HIST 306   MODERN EUROPE  5
HIST 341   RENAISSANCE AND REFORMATION  5
HIST 350   WAR AND SOCIETY  5
HIST/GERM 382   20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR  5
HIST 425   GREEK HISTORY TO 400 BC  5
HIST 428   ROMAN EMPIRE  5
HIST 440   HISTORY OF WORLD WAR I  4
HIST 441   HISTORY OF WORLD WAR II  4
HIST 454   DIPLOMATIC HISTORY OF EUROPE, 1914 TO THE PRESENT  5
HIST/WMST 468   HISTORY OF MODERN AMERICAN WOMEN  5
HIST 471   AMERICAN REVOLUTION, 1763-1824  5
HIST 481   HISTORY OF AMERICAN FOREIGN RELATIONS FROM 1898  5
HIST 487   ECONOMIC HISTORY OF THE UNITED STATES  5
POLI 300   U.S. JUDICIAL PROCESS  5
POLI 304   U.S. CIVIL RIGHTS AND LIBERTIES  5
POLI 305   JURISPRUDENCE  5
POLI 313   ANCIENT AND MEDIEVAL POLITICAL THOUGHT  5
POLI 314   MODERN WESTERN POLITICAL THOUGHT  5
POLI 317   AMERICAN POLITICAL THOUGHT  5
POLI 401   TOPICS IN POLITICAL THEORY  5
WMST 410   FEMINIST THEORY  4

Stream #2: Philosophy of Art and Literature
This stream concentrates on aesthetics, the philosophical study of art. Broadly construed this includes fine arts, performance arts and literature. Students enrolled in this stream will address questions like: What is art? What is beauty? How do we tell good art from bad art and can these judgments ever be objective? What is taste? What is the proper relationship between art and morality? Students of this subject will ground their inquiry in the study of particular art forms such as literature, film, theatre, music and painting.

AAST 301   HARLEM RENAISSANCE: RECONSTRUCTION TO 1930  5
ART 310   WORLD ART  5
ART 311   AFRICAN AND AFRICAN AMERICAN ART HISTORY  5
ART 409   WOMEN AND MEN IN CONTEMPORARY ART  1
ART 415   HISTORY OF ANCIENT ART  5
ART 420   HISTORY RENAISSANCE ART  5
Applied Ethics and Practical Philosophy Certificate

The Applied Ethics and Practical Philosophy Certificate Program seeks to nurture the application of ethical and philosophical ideas toward concerns in social, political, economic and cultural life. The chief goal of the program is to offer practically oriented, but philosophically based, expertise in ethics and normative theory.

The program will also provide Eastern Washington University students with the cultural understanding, ethical decision-making and critical thinking skills necessary for addressing the dilemmas faced by present and future professionals, policy makers and citizens in general. It is designed to ensure that its recipients have a command of the basic theories of moral philosophy as well as a specialized knowledge of their applications in many areas of public life, including medicine, government, law, public policy, business and education. Consequently, the curriculum includes both core courses essential to a solid foundation in moral thought and specialized courses in practical philosophy and applied ethics.

The certificate will serve as a valuable credential to professionals who require a general understanding of the area, e.g. those who serve on ethics committees or compliance boards and those who seek advanced ethics training to meet licensure demands.

### Required Courses

Choose one of the following:

- PHIL 212 INTRODUCTORY ETHICS
- PHIL 213 MORAL ISSUES IN AMERICA

Choose two of the following:

- PHIL 311 SOCIAL AND POLITICAL PHILOSOPHY
- PHIL 417 WOMEN AND ETHICS
- PHIL 445 BIOMEDICAL ETHICS
- PHIL 447 ENVIRONMENTAL ETHICS
- PHIL 499 DIRECTED STUDY

### Elective Courses

Choose three of the following:

- AAST 424 ECONOMICS OF POVERTY AND DISCRIMINATION
- or ECON 424 ECONOMICS OF POVERTY AND DISCRIMINATION
- or WMST 426 ECONOMICS OF POVERTY AND DISCRIMINATION
- ACCT 261 BUSINESS LAW
- ADST 460 LAW AND ETHICS FOR ADDICTION PROFESSIONALS
- AGST 458 PERSPECTIVES ON DEATH AND DYING
- or SOWK 458 PERSPECTIVES ON DEATH AND DYING
- CMST 351 COMMUNICATIVE REASONING
- CMST 431 COMMUNICATION LAW AND ETHICS
- CRIM 340 ETHICS IN CRIMINAL JUSTICE
- DSSR 310 DISABILITY, CULTURE AND SOCIETY
- HLED 370 PERSONAL AND COMMUNITY HEALTH
- HUMN 415 GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES

### Stream #3: Philosophy and History

This stream investigates epistemological issues regarding the nature of historical truth, how present context and the narrative shape our understanding of the past and the diverse philosophical influences that have produced schools of historiographical thought. Students in this concentration address the meaning of historical progress, the theoretical basis for new histories of social affairs, of women and other oppressed groups and philosophical explanations of both recurrence and change in history.

All 300- and 400-level classes in History are eligible for satisfying the electives of this stream. The following classes outside of History are also eligible:

- ART 415 HISTORY OF ANCIENT ART 5
- ART 420 HISTORY RENAISSANCE ART 5
- ART 422 HISTORY OF BAROQUE AND ROCOCO ART 5
- ART 423 ART OF THE 19TH CENTURY 5
- ART 430 HISTORY OF MODERN ART 5
- ART 431 HISTORY OF CONTEMPORARY ART 5
- ART 315 TOPICS IN LITERATURE AND CULTURE 5
- ENGL 340 SURVEY OF BRITISH LITERATURE I 5
- ENGL 341 SURVEY OF BRITISH LITERATURE II 5
- ENGL 342 SURVEY OF BRITISH LITERATURE II 5
- ENGL 343 SURVEY OF AMERICAN LITERATURE I 5
- ENGL 344 SURVEY OF AMERICAN LITERATURE II 5
- ENGL 350 SHAKESPEARE 5
- ENGL 360 LANGUAGE STRUCTURE AND USE 5
- ENGL 380 SURVEY OF NATIVE AMERICAN LITERATURE 5
- ENGL 381 CONTEMPORARY AFRICAN AMERICAN LITERATURE 5
- ENGL 382 STUDIES IN EPIC FANTASY 5
- ENGL 384 FOLKLORE 5
- ENGL 385 MYTHOLOGY 5
- ENGL 387 LITERATURE OF THE BIBLE 5
- ENGL/WMST 389 WOMEN, LITERATURE AND SOCIAL CHANGE 5
- THTR 303 SURVEY OF THEATRE HISTORY 5

### Elective Courses

Choose one of the following:

- HUMN 415 GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES

Eastern Washington University
Philosophy Major, Bachelor of Arts (BA)

Students may choose either the 45- or 60-credit major.

Notes:

- two years of a single high school foreign language or one year of a single foreign language at college level is required for this major;
- the 60 credit major does not require completion of a minor.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 301</td>
<td>INTRODUCTION TO FORMAL LOGIC</td>
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<td>PHIL 320</td>
<td>HISTORY OF ANCIENT WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>HISTORY OF MODERN WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 322</td>
<td>HISTORY OF CONTEMPORARY WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
</tbody>
</table>

Capstone Requirement—select one of the following or any Senior Capstone with your advisor's approval.

Note: for students who select PHIL as a second major, the capstone requirement will be met by the completion of the primary major capstone.

Electives—choose 40 credits in philosophy in consultation with a departmental advisor.

Note: no more than 15 credits may be taken in 200-level philosophy courses.

Total Credits

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>64-65</td>
</tr>
</tbody>
</table>

Student Learning Outcomes—students will

- critically analyze, using logic and other tools, the consistency and verifiability of their own beliefs and the beliefs of others, as well as engage in reasoned public deliberation challenging those beliefs;
- understand the main doctrines and evaluate the arguments that underpin the ancient, modern, and contemporary periods of thought;
- offer interpretations of the ideas of major philosophers by showing how they relate to perennial philosophical themes such as: visions of the good life, reality versus appearance, the roles of reason and experience, freedom and morality, etc;
- apply methods for philosophical problem solving by (a) relating theory to practice, (b) evaluating ideas in terms of both generic or universal humanity and perspectival pluralism, and (c) applying normative standards of truth, value and beauty;
- apply philosophical writing styles in writing assignments and research projects that are aimed at extending philosophical inquiry through argumentation and/or comparative studies.
Physical Education, Health and Recreation

Matthew Chase, Chair
department page (https://www.ewu.edu/cale/programs/pehr)
200 PEC Building
509.359.2341

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
• Outdoor Recreation (p. 161)
• Recreation and Tourism Management (p. 164)
• Therapeutic Recreation (p. 165)
• Therapeutic Recreation: Occupational Therapy (See Occupational Therapy (p. 224))

Bachelor of Arts in Education (BAE)
• Health and Fitness/Elementary or Secondary Major (p. 160)

Bachelor of Science (BS)
• Athletic Training (p. 157)
• Exercise Science (p. 159)
• Exercise Science: Major in Interdisciplinary Studies Leading to a Master of Occupational Therapy (MOT) (See Occupational Therapy (p. 224))
• Public Health (http://catalog.ewu.edu/arts-letters-education/physical-education-health-recreation/%20/arts-letters-education/physical-education-health-recreation/public-health-bs)

Undergraduate Certificates
• Challenge Course Management and Leadership Certificate (p. 158)

Undergraduate Minors
• Aquatics (p. 157)
• Challenge Course Management and Leadership (p. 158)
• Coaching (p. 158)
• Personal Training (p. 162)

Undergraduate Programs
The Department of Physical Education, Health and Recreation (PEHR), houses the following major programs: Athletic Training, Community Health, Exercise Science, Health and Fitness (teaching endorsement), Outdoor Recreation, Recreation and Tourism Management and Therapeutic Recreation.

Professional Membership Requirements: every student graduating in PEHR must be a member of a professional organization at least by their senior year.

Advising and Consultation
Information for High School and Transfer Students: High school and transfer students should consult with specific program directors in the PEHR Department during their first quarter at EWU. At that time, a program can be formulated and any previous college classes evaluated for the major. As soon as students have decided to major or minor in programs offered by the department, they need to contact the PEHR Department and declare a major.

Degree Descriptions
Athletic Training: This major is designed for students who are interested in becoming certified athletic trainers. The major is designed to prepare students to sit for the Board of Certification’s national examination and to work competently in the field of Athletic Training and Sports Medicine. The major welcomes both the freshman and transfer student to apply and generally requires three years to complete. However, if specific prerequisites are met, the program can be completed within two-years. Students wishing to be admitted must apply and be accepted into the Athletic Training Education Program. Students in the program will receive formal instruction and clinical practice in development of proficiencies in risk management and injury prevention, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic psychosocial intervention and referral, health care administration and professional development and responsibilities. Opportunities for employment exist in but are not limited to, athletic training in high schools, colleges and professional and non-professional athletic teams, sports medicine clinics, hospitals, health clubs and corporate fitness programs. Opportunities also exist in colleges and universities for those who elect to continue beyond the bachelor’s degree.

Exercise Science: This major has three options and is designed for those students who are not interested in teaching but are interested in fitness and wellness management; or a graduate program in either physical therapy or occupational therapy. Graduates are prepared to work in various settings as managers of fitness programs. The options include corporate fitness, commercial fitness clubs, YMCA-YWCA or other non-commercial programs, retirement centers or hospital rehabilitation programs in cardiac rehabilitation, respiratory therapy and diabetes support. The program prepares students to pursue advanced degrees in professional programs in physical and occupational therapy, or chiropractic, as well as degrees in exercise physiology, biomechanics, motor control and learning, cardiac rehabilitation, and adult fitness. The program and coursework prepares students to pursue certification from organizations such as including ACSM, NSCA, NASM, and ACE. These certifications are widely accepted in the fitness industry.

Health and Fitness: The Health and Fitness (BAE) degree is designed for those students pursuing a teaching endorsement. Students will become certified to teach K–12 within both the health and fitness (physical
education) areas. We also continue to offer a non-teaching physical education coaching minor.

Recreation: The nationally accredited Recreation program focus on a profession that offers many challenging and varied forms of employment. Trained recreation leaders are regularly hired in positions with cities, communities, youth agencies, parks, resorts, outfitting companies, convention centers, rehabilitation medicine, correction facilities, the armed forces and much more.

The recreation curriculum is designed to aid students in developing a philosophical and practical knowledge of recreation and leisure services. Students are exposed to skill-sets and competencies that are relevant to a career in recreation, which prepares them for a ten to sixteen week professional internship.

Students may choose from a comprehensive curriculum in one of three majors: Outdoor Recreation, Recreation and Tourism Management, Therapeutic Recreation and minors in Aquatics, Challenge Course Management and Leadership and a certificate in Challenge Course Management and Leadership.

Public Health: Public Health majors are professionals who design, conduct and evaluate activities that help improve the health of all people. Placements will be in a variety of settings including public health and non-profit health agencies, worksite wellness programs, colleges and universities and government agencies. The majors are prepared to sit for the National Commission for Health Education Credentialing (CHES) examination and for graduate programs in public health and health promotion.

Special Programs Information

Human Performance Laboratory: The Human Performance Laboratory located in the Physical Education Classroom Building provides state-of-the-art equipment for clinical and research experience in the areas of athletic training, exercise physiology, motor learning, biomechanics, and health promotion conducted by faculty, graduate and undergraduate students. The lab is made available for clinical evaluations and exercise prescriptions for faculty, staff, students and the community.

Fitness Center: The University Recreation Center (URC) Fitness Center is designed to meet the health, wellness and fitness needs of the EWU campus community. The URC Fitness Center has 15,000 square feet of fitness space with a variety of fitness options available. Activity options include: strength training (3 circuits, free weights, racks, and platforms), cardio equipment (treadmills, elliptical trainers, arc trainers, steppers, bikes, stepmills; most with a view of a TV), and functional equipment (functional trainers, leg machines, TRX, medicine balls, BOSU). Also included are a multi-purpose gym (for basketball, volleyball, etc) and an indoor running track (1/9 mile). Fitness Instructors are always available to assist members during their workouts. To motivate and assist members in achieving their fitness goals personal training is available (for an additional fee). Each quarter the PEHR Department offers both PHED 150 Fast Fitness (2) and PHED 152 Strength/Weight Training (2) as a credit option for EWU students using the facility.

Degree Requirements for all Recreation Majors

• two years of a single high school foreign language or one year of a single college level foreign language is required;
• a minimum grade ≥2.50 must be obtained in each required RCLS course (if a lower grade is received, the course must be retaken);
• a minimum cumulative GPA ≥2.50 shall be necessary in all upper- and lower-division required RCLS courses;
• a minimum cumulative GPA ≥2.50 shall be required for all university coursework; failure to comply with the above standards will jeopardize professional internship eligibility.
• must see your advisor at least once per quarter.
• current First Aid/CPR card is required for all majors;
• computer competency is required.

Internship Requirement

Prior to interning, students must complete three major requirements
• each student must complete 1500 hours of practical experience in the recreation and leisure service field, prior to qualifying for the professional internship. These 1500 hours must be from three (3) separate sources with no more than 750 hours from any one source. (Therapeutic Recreation majors have specific requirements to fulfill, as regards to the number of hours and various populations; these majors must consult with their advisor.);
• applications for the Professional Internship must be presented to their faculty advisor no later than May 15. (Students may register for their internship, only during the summer quarter.);
• each student must obtain a current Standard First Aid Card or Advanced First-Aid Card.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees

Master of Science (MS)

• Physical Education (p. 162)

Graduate Program

Admission Requirements

The Master of Science degree in Physical Education prepares students for a diverse array of careers in areas including athletic administration, teaching and coaching, directing fitness facilities and programs in a variety of settings, and sport psychology consultation with athletic teams. Additionally, the degree is applicable to those students interested in pursuing advanced graduate studies in related areas. This program provides an opportunity for students to focus on one of two areas of specialization: Sports and Recreation Administration or Exercise Science. All students are required to take a basic core of courses and then select a specialization area. A thesis is required of Exercise Science students. The Sports and Recreation Administration specialization has the option of a thesis, research report or written examination to complete the degree. Prospective students should hold a related baccalaureate degree from an accredited institution. Applicants for admission to the graduate program in physical education must follow the graduate admission procedures as outlined elsewhere in this catalog. In addition, applicants must submit three professional letters of recommendation and a one to two page essay describing their professional goals and objectives. Students are admitted for fall quarter only; requests for admission in other academic quarters are discouraged.

Final Comprehensive Examination Options

Before the awarding of the master’s degree, each student will successfully complete one of two options: a thesis or other research project; or a written examination.

Option A: The thesis or research project will be selected in consultation with the student’s faculty advisor. Each student shall complete an
oral examination, which will focus primarily on the master’s thesis or project but which may also include questions to demonstrate competence in all areas included in the program of that student. Students will provide copies of their master’s thesis or project to the oral examination committee at least two weeks in advance of the scheduled oral examination.

Option B: The written examination is designed to test students’ competence across the breadth of their program. Over the course of the 4 hours, the student will address questions on research methods and statistics as well theory and content. The student will approach prospective committee members to ensure they are willing to provide examination questions. The examination committee will consist of three graduate faculty members: two from the Physical Education, Health and Recreation Department, one of whom will chair the committee; and a faculty member designated by the Graduate Office. If the student does not pass in their first attempt, the student may be required to take additional courses and will be permitted to take the written examination one additional time. For option A, the final oral examination will be open to interested faculty and students and may be open to questions from non-committee members at the discretion of the committee. The final oral examination for option A will be no longer than 2 hours. With respect to option B, the examination will not be held over vacation periods or during summer quarter except by advance approval of all committee members.

Aquatics Minor

This minor will develop the student’s knowledge of water safety, aquatic facility management, small craft safety, scuba operations, exercise and fitness. It will utilize nationally recognized certification programs to train students in each area and equip students for employment in the field of aquatics in such diverse areas as fitness clubs, educational institutions, YMCA, YWCA, rehabilitation centers, community centers and Parks and Recreation departments.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHED 393</td>
<td>WATER SAFETY INSTRUCTOR'S COURSE</td>
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<tr>
<td>PHED 394</td>
<td>LIFEGUARD TRAINING</td>
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<tr>
<td>RCLS 340</td>
<td>AQUATIC FACILITIES MANAGEMENT</td>
<td>3</td>
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<tr>
<td>RCLS 350</td>
<td>RECREATION PRACTICUM</td>
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Electives—choose from list

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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHED 125</td>
<td>PE ACTIVITIES (Scuba Diving)</td>
<td>4</td>
</tr>
<tr>
<td>PHED 125</td>
<td>PE ACTIVITIES (Swim Conditioning)</td>
<td>4</td>
</tr>
<tr>
<td>PHED 125</td>
<td>PE ACTIVITIES (Aqua Aerobics)</td>
<td>4</td>
</tr>
<tr>
<td>RCLS 125</td>
<td>RECREATION AND LEISURE SERVICES ACTIVITIES</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 230</td>
<td>WHITETR WATER KAYAKING</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 18

Athletic Training Major, Bachelor of Science (BS)

This major is designed for those students who are interested in becoming certified athletic trainers. The major is designed to prepare students to sit for the Board of Certification's national examination and to work competently in the field of Athletic Training and Sports Medicine. Students must apply and be accepted into the Athletic Training Education Program (ATEP). Admission to the program is based upon evaluation of the student’s entire application, including: the academic record, signed statement of ability to meet the Program Technical Standards, GPA and completion of prerequisite courses, professional references and a written essay. Applications are due the last day of winter quarter each year. The number of applicants may exceed the number of students that can be admitted to the program each year; therefore, no assurance can be given that all applicants admitted to the university and who complete the application requirements will be admitted to the ATEP. For further information regarding the application process, please contact the PEHR Department at 509.359.2341 or refer to program website, athletictraining (https://www.ewu.edu/cale/programs/pehr/pehr-degrees/athletic-training). Opportunities for employment exist in but are not limited to, athletic training in high schools, colleges and professional and non-professional athletic teams; sports medicine clinics; hospitals; health clubs; and corporate fitness programs. Opportunities for those who elect to continue their education beyond the bachelor’s degree level also exist.

Degree Requirements:

- must earn a minimum ≥3.0 in each ATTR designated required course;
- must earn a minimum ≥2.5 in each Kinesiology and each Biology course;
- must have a minimum ≥2.0 in all other program required courses;
- must have a minimum cumulative GPA ≥2.75 for each quarter while in the program;
- must be a member of the National Athletic Trainer’s Association;
- failure to comply with the above standards will prohibit degree eligibility.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ATTR 201</td>
<td>INTRODUCTION TO ATHLETIC TRAINING</td>
<td>3</td>
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<tr>
<td>ATTR 288</td>
<td>CLINICAL ATHLETIC TRAINING I (repeat three times)</td>
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<td>ATTR 339</td>
<td>ATHLETIC TRAINING</td>
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<tr>
<td>ATTR 340</td>
<td>THERAPEUTIC MODALITIES IN SPORTS MEDICINE</td>
<td>4</td>
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<td>ATTR 341</td>
<td>REHABILITATION IN ATHLETIC TRAINING</td>
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<tr>
<td>ATTR 350</td>
<td>MEDICATIONS IN THE HEALTH CARE PROFESSIONS</td>
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<td>ATTR 360</td>
<td>GENERAL MEDICAL CONDITIONS</td>
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<td>ATTR 370</td>
<td>CONTEMPORARY HEALTH ISSUES IN ATHLETIC TRAINING</td>
<td>3</td>
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<tr>
<td>ATTR 388</td>
<td>CLINICAL ATHLETIC TRAINING II (repeat three times)</td>
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<tr>
<td>ATTR 428</td>
<td>ORTHOPEDIC EVALUATION I</td>
<td>4</td>
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<tr>
<td>ATTR 429</td>
<td>ORTHOPEDIC EVALUATION II</td>
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<tr>
<td>ATTR 439</td>
<td>CURRENT TOPICS IN SPORTS MEDICINE (repeat nine times)</td>
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<tr>
<td>ATTR 450</td>
<td>ADVANCED PROCEDURES AND TECHNIQUES IN ATHLETIC TRAINING</td>
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<td>ATTR 488</td>
<td>CLINICAL ATHLETIC TRAINING III (repeat three times)</td>
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<td>ATTR 490</td>
<td>SENIOR CAPSTONE</td>
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<td>BIOL 232</td>
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<td>BIOL 233</td>
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<td>BIOL 234</td>
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<td>HLED 194</td>
<td>EMERGENCY RESPONSE</td>
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<tr>
<td>HLED 256</td>
<td>MEDICAL TERMINOLOGY</td>
<td>2</td>
</tr>
</tbody>
</table>
transfer credits will not be accepted for certificate completion.

In no course required for the certificate can the student receive a grade <3.0. All courses for the certificate must be completed at EWU.

Students also attain facilitation and leadership skills beneficial in many professional leadership or management roles.

In no course required for the certificate can the student receive a grade <3.0. All courses for the certificate must be completed at EWU; transfer credits will not be accepted for certificate completion.

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<th>Course</th>
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<tr>
<td>RCLS 220</td>
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<tr>
<td>RCLS 225</td>
<td>FACILITATION TECHNIQUES</td>
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<td>RCLS 321</td>
<td>CHALLENGE COURSE LOW ELEMENT</td>
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<tr>
<td>RCLS 352</td>
<td>CHALLENGE COURSE TECHNICAL SKILLS</td>
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<tr>
<td>RCLS 353</td>
<td>CHALLENGE COURSE ADVANCED TECHNICAL SKILLS</td>
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</tbody>
</table>

Total Credits 15

### Challenge Course Management and Leadership Certificate

The Certificate in Challenge Course Management and Leadership addresses the growing challenge education field and the need for trained practitioners within this field. The certificate curriculum closely follows the standards and guidelines developed by the leading national organizations in the challenge course industry. A student completing the full certificate curriculum will gain experience, education and training that is essential as a challenge course facilitator or manager as well as acquire documented experience to apply toward practitioner certification.

Students also attain facilitation and leadership skills beneficial in many professional leadership or management roles.

In no course required for the certificate can the student receive a grade <3.0. All courses for the certificate must be completed at EWU.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
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<tr>
<td>RCLS 220</td>
<td>LEADERSHIP IN RECREATION AND LEISURE SERVICES</td>
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<td>RCLS 225</td>
<td>FACILITATION TECHNIQUES</td>
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</table>

Total Credits 15

### Challenge Course Management and Leadership Minor

The Minor in Challenge Course Management and Leadership addresses the growing challenge education field and the need for trained practitioners within this field. The certificate curriculum closely follows the standards and guidelines developed by the leading national organizations in the challenge course industry. A student completing the full certificate curriculum will gain experience, education and training that is essential as a challenge course facilitator or manager as well as acquire documented experience to apply toward practitioner certification.

In no course required for the certificate can the student receive a grade <3.0. All courses for the certificate must be completed at EWU.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCLS 220</td>
<td>LEADERSHIP IN RECREATION AND LEISURE SERVICES</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 225</td>
<td>FACILITATION TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 321</td>
<td>CHALLENGE COURSE LOW ELEMENT</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 352</td>
<td>CHALLENGE COURSE TECHNICAL SKILLS</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 353</td>
<td>CHALLENGE COURSE ADVANCED TECHNICAL SKILLS</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 475</td>
<td>CHALLENGE COURSE MANAGEMENT AND OPERATION</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

### Coaching, Minor

Although this is not an endorsable minor, all the courses can be applied toward meeting the state’s clock hour requirements for school coaches. In the State of Washington high school coaches must have completed 30 clock hours before the beginning of the third year in
any of five standards categories (medical aspects, legal aspects, psychological/social foundations, coaching techniques and philosophy sports management/pedagogy). Middle Level coaches must complete a coaching effectiveness training class equivalent to the NFICEP/ASEP coaching principles class before the beginning of their third year.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 251</td>
<td>MOTOR CONTROL AND LEARNING</td>
<td>4</td>
</tr>
<tr>
<td>PHED 259</td>
<td>SPORT FIRST AID AND INJURY PREVENTION</td>
<td>3</td>
</tr>
<tr>
<td>PHED 260</td>
<td>SPORT SCIENCES FOR COACHING</td>
<td>3</td>
</tr>
<tr>
<td>PHED 261</td>
<td>COACHING SPORTS TECHNICAL AND TACTICAL SKILLS</td>
<td>3</td>
</tr>
<tr>
<td>PHED 348</td>
<td>ANATOMICAL/MECHAB KINESIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PHED 350</td>
<td>PHYSIOLOGICAL KINESIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PHED 461</td>
<td>SPORTS AND EXERCISE PSYCHOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 24

Exercise Science, Bachelor of Science (BS)

This major has three options and is designed for those students who are not interested in teaching but are interested in fitness, wellness or clinical positions; or a graduate program in occupational therapy, physical therapy or exercise physiology. Students must complete two quarters of the appropriate science courses with required grades before they can declare Exercise Science and be admitted into the program. Everyone must complete the first appropriate CHEM course for their option. For the Pre-PT option they must complete CHEM 151 (or the equivalent) with a grade ≥2.0, and for Exercise Science they must complete CHEM 161 (or the equivalent) with a grade ≥3.0, and for Exercise Science ≥3.0. Graduates are prepared to work in various settings as managers of fitness programs. The options include but are not limited to corporate fitness, commercial fitness clubs, a YMCA, or other non-commercial program, retirement centers or hospital rehabilitation programs in cardiac rehabilitation, respiratory therapy and diabetes support. The program prepares students to pursue advanced degrees in professional programs in occupational therapy or chiropractic as well as advanced degrees in exercise physiology, biomechanics or cardiac rehabilitation and adult fitness. The program and course work prepares students to pursue certifications from organizations including ACSM, NASM, NSCA and ACE. These certifications are widely accepted in the fitness industry.

Note: For all students completion of any one of the three options as shown will not guarantee completion of 60 credits of upper division credits so all three will require additional courses to complete the general education requirement. Students should work with their advisor to select appropriate courses or minor.

Required Core Courses—a minimum GPA ≥2.5 is required for each required course listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 301</td>
<td>INTRODUCTION TO EXERCISE SCIENCE</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 455</td>
<td>RESEARCH AND ANALYSIS</td>
<td>2</td>
</tr>
<tr>
<td>EXSC 460</td>
<td>PHYSIOLOGY OF EXERCISE</td>
<td>4</td>
</tr>
<tr>
<td>EXSC 480</td>
<td>CLINICAL EXERCISE PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 490</td>
<td>SENIOR CAPSTONE IN EXERCISE SCIENCE</td>
<td>4</td>
</tr>
<tr>
<td>EXSC 498</td>
<td>SEMINAR IN EXERCISE SCIENCE</td>
<td>2</td>
</tr>
<tr>
<td>EXSC 500</td>
<td>SEMINAR IN EXERCISE SCIENCE</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLED 193</td>
<td>STANDARD FIRST AID AND SAFETY</td>
<td>2</td>
</tr>
<tr>
<td>HLED 372</td>
<td>APPLIED NUTRITION AND PHYSICAL FITNESS</td>
<td>3</td>
</tr>
<tr>
<td>PHED 349</td>
<td>ANATOMICAL KINESIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PHED 350</td>
<td>PHYSIOLOGICAL KINESIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PHED 352</td>
<td>MECHANICAL KINESIOLOGY</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 232</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 233</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 234</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>GENERAL CHEMISTRY FOR THE HEALTH SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>ORGANIC CHEMISTRY FOR THE HEALTH SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 163</td>
<td>BIOCHEMISTRY FOR THE HEALTH SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose two of the following—a minimum GPA ≥2.5 is required for each required course listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 481</td>
<td>ELECTROCARDIOLOGY INTERPRET</td>
<td>4</td>
</tr>
<tr>
<td>PHED 333</td>
<td>GROUP EXERCISE INSTRUCTOR TRAINING</td>
<td>4</td>
</tr>
<tr>
<td>PHED 334</td>
<td>PERSONAL TRAINING</td>
<td>4</td>
</tr>
<tr>
<td>PHED 335</td>
<td>STRENGTH AND CONDITIONING PROLAB</td>
<td>4</td>
</tr>
<tr>
<td>BUED 302</td>
<td>BUSINESS COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>CMST 312</td>
<td>NONVERBAL COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>CMST 331</td>
<td>INTERVIEWING</td>
<td>4</td>
</tr>
<tr>
<td>CMST 340</td>
<td>INTERCULTURAL COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>CMST 420</td>
<td>HEALTH COMMUNICATION</td>
<td>4</td>
</tr>
</tbody>
</table>

Communications Elective-choose one course from the following—a minimum GPA ≥2.0 is required for each required course listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 312</td>
<td>NONVERBAL COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>CMST 340</td>
<td>INTERCULTURAL COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>BUED 302</td>
<td>BUSINESS COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>CMST 420</td>
<td>HEALTH COMMUNICATION</td>
<td>4</td>
</tr>
</tbody>
</table>

Major Options—choose one of the three options to complete the BS. 15-28

Exercise Science—Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 488</td>
<td>PROFESSIONAL INTERNSHIP (must complete 15 credits—a minimum GPA ≥2.5 is required)</td>
<td>15</td>
</tr>
</tbody>
</table>

Pre–Physical Therapy—Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 388</td>
<td>EXERCISE SCIENCE PRACTICUM (a minimum GPA ≥2.5 is required)</td>
<td>15</td>
</tr>
</tbody>
</table>

Required Supporting Courses—a minimum GPA ≥3.0 is required for each course listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>INTRODUCTORY PHYSICS II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 133</td>
<td>INTRODUCTORY PHYSICS III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>INSTRUMENTATION LAB I</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 302</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td>4</td>
</tr>
</tbody>
</table>

Pre–Occupational Therapy—Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 388</td>
<td>EXERCISE SCIENCE PRACTICUM (a minimum GPA ≥2.5 is required)</td>
<td>15</td>
</tr>
</tbody>
</table>
Required Supporting Courses—a minimum GPA ≥3.0 is required for each course listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTH 101</td>
<td>INTRODUCTION TO OCCUPATIONAL THERAPY</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>LIFE-SPAN DEVELOPMENT</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 302</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 89-105

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate competency in foundational skills of reading, writing, arithmetic, speaking and listening and thinking skills demonstrating the ability to learn, to reason, to think creatively, to make decisions and to solve problems;
- be prepared for appropriate certification exams in the industry;
- demonstrate competency in fitness testing of the relatively healthy population in all components of fitness-cardiovascular, muscle strength, endurance, flexibility and body composition.

## Health and Fitness/Elementary or Secondary Major, Bachelor of Arts in Education (BAE)

Students can choose either the Elementary or the Secondary Core.

This major satisfies the endorsement for preschool to grade 12.

Notes:

- must earn a minimum ≥2.8 in each required health and physical education course; must have a minimum cumulative GPA ≥2.8 in all university courses;
- this major takes more than 12 quarters at 15–16 credits a quarter;
- required—must be a member of a professional organization;
- each student is required to complete 40 hours of professional development per year while in the health and fitness program and be a member of the EWU Health and Fitness Majors Club.

### Required Elementary Education Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION &amp; FOUNDATIONS OF ASSESSMENT</td>
<td>7</td>
</tr>
<tr>
<td>&amp; EDUC 303 &amp; EDUC 308 &amp; FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 304</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td>9</td>
</tr>
<tr>
<td>&amp; EDUC 339 &amp; SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 142-143

### Required Secondary Education Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
<td>15</td>
</tr>
<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
<td>5</td>
</tr>
<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
<td>3</td>
</tr>
<tr>
<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one of the following

- PHED 333 GROUP EXERCISE INSTRUCTOR TRAINING
- PHED 334 PERSONAL TRAINING
- PHED 335 STRENGTH AND CONDITIONING PROLAB

Total Credits: 142-143

Notes:

- must earn a minimum ≥2.8 in each required health and physical education course; must have a minimum cumulative GPA ≥2.8 in all university courses;
- the above major takes more than 12 quarters at 15–16 credits a quarter;
- required—must be a member of a professional organization;
- each student is required to complete 40 hours of professional development per year while in the health and fitness program and be a member of the EWU Health and Fitness Majors Club.
EDUC 200 ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently) 7
EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT 4
EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4
EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Health and Fitness Secondary Courses
HLED 193 STANDARD FIRST AID AND SAFETY 2
HLED 200 ADMISSION TO HEALTH AND FITNESS 2
HLED 201 INTRODUCTION TO HEALTH AND WELLNESS 3
HLED 300 AFTER-SCHOOL PROGRAMMING 3
HLED 365 TEACHING METHODS IN HEALTH 3
HLED 370 PERSONAL AND COMMUNITY HEALTH 4
HLED 372 APPLIED NUTRITION AND PHYSICAL FITNESS 3
HLED 376 CONSUMER HEALTH 3
HLED 475 SEX EDUCATION IN SCHOOLS AND COMMUNITY 4
PHED 251 MOTOR CONTROL AND LEARNING 4
PHED 260 SPORT SCIENCES FOR COACHING 3
PHED 336 INDIVIDUAL SPORTS 2
PHED 337 TEAM SPORTS 2
PHED 340 RHYTHMS AND GAMES 2
PHED 341 ELEMENTARY SCHOOL ACTIVITIES 2
PHED 342 LIFELONG LEISURE ACTIVITIES 2
PHED 348 ANATOMICAL/MECHAB KINESIOLOGY 4
PHED 350 PHYSIOLOGICAL KINESIOLOGY 4
PHED 365 GENERAL METHODS AND PROCEDURES FOR PHYSICAL EDUCATION 3
PHED 370 SPORT AND CULTURE 4
PHED 375 ASSESSMENT IN HEALTH AND FITNESS 3
PHED 452 ADAPTED PHYSICAL EDUCATION 4
PHED 490 SENIOR CAPSTONE: HEALTH AND FITNESS 4

Choose one of the following 2-3
PHED 333 GROUP EXERCISE INSTRUCTOR TRAINING
PHED 334 PERSONAL TRAINING
PHED 335 STRENGTH AND CONDITIONING PROLAB

Total Credits 115-116

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Note: see Education for additional SLOs.

• understand health/physical education content and disciplinary concepts related to the development of a healthy/physically educated person;
• understand how individuals learn and develop, and provide opportunities that support physical, cognitive, social and emotional development;
• understand how individuals differ in their approaches to learning and create appropriate instruction adapted to these differences;
• use and have an understanding of individual and group motivation and behavior to create a safe learning environment that encourages positive social interaction, active engagement in learning, and self-motivation;
• use knowledge of effective verbal, nonverbal, and media communication techniques to enhance learning and engagement;
• understand the importance of planning developmentally appropriate instructional units to foster the development of a healthy/physically educated person.

Outdoor Recreation Major, Bachelor of Arts (BA)

The Outdoor Recreation program qualifies individuals as outdoor leaders or resource managers for public and private organizations, including government agencies.

Notes:

• two years of a single high school foreign language or one year of a single college level foreign language is required;
• computer competency is required for the this major;
• a minimum grade ≥2.50 must be obtained in each required RCLS course (if a lower grade is received, the course must be retaken);
• a minimum cumulative GPA ≥2.50 shall be necessary in all upper- and lower-division required RCLS courses;
• a minimum cumulative GPA ≥2.50 shall be required for all university coursework; failure to comply with the above standards will jeopardize professional internship eligibility.

Required Core Courses
RCLS 201 RECREATION AND LEISURE IN MODERN SOCIETY 3
RCLS 220 LEADERSHIP IN RECREATION AND LEISURE SERVICES 3
RCLS 240 OVERVIEW OF THERAPEUTIC RECREATION SERVICES 4
RCLS 270 DIVERSITY AND SOCIAL JUSTICE IN RECREATION AND LEISURE SERVICES 3
RCLS 313 WILDLAND RECREATION MANAGEMENT 3
RCLS 325 OUTDOOR ADVENTURE PROGRAMMING 3
RCLS 360 FACILITY PLANNING AND ENVIRONMENTAL DESIGN 3
RCLS 385 PROGRAMMING IN RECREATION AND LEISURE SERVICES 3
RCLS 400 LEGAL FOUNDATIONS IN RECREATION AND LEISURE SERVICES 4
RCLS 425 EVALUATION, RESEARCH AND STATISTICS IN RECREATION AND LEISURE SERVICES 4
RCLS 435 EMPLOYMENT PROCESSES IN RECREATION AND LEISURE SERVICES 2
Personal Training Minor

Notes:
1. minimum grade ≥2.5 required for each course;
2. must obtain Personal Trainer Certification through an approved organization.

Required Courses
MKTG 310  PRINCIPLES OF MARKETING  4
PHED 334  PERSONAL TRAINING  3

Physical Education, Master of Science (MS)

Student may choose between two tracks: Exercise Science or Sports and Recreation Administration.

Note: before the awarding of the master’s degree, each student will successfully complete one of two options: a thesis or other research project; or a written examination.

Exercise Science

Required Core Courses
PHED 500  INTRODUCTION TO GRADUATE STUDIES  1
PHED 505  CURRENT ISSUES AND ETHICS  3
PHED 517  SURVEY RESEARCH  3
PHED 518  REVIEW OF LITERATURE  3
PHED 519  STATISTICS IN PHYSICAL EDUCATION  3
PHED 520  RESEARCH METHODS IN PHYSICAL EDUCATION  3

Approved Electives  11-14

Required Exercise Science Courses
PHED 550  ADVANCED BIOMECHANICS  3
PHED 554  BEHAVIOR CHANGE-THEORY AND PRACTICE  3
PHED 555  ADVANCED PHYSIOLOGY OF EXERCISE  3
PHED 556  ADVANCED CLINICAL EXERCISE PHYSIOLOGY  3
PHED 600  THESIS (1-9)  9

Total Credits  48-51
PHED 519  STATISTICS IN PHYSICAL EDUCATION  3
PHED 520  RESEARCH METHODS IN PHYSICAL EDUCATION  3

Approved Electives  11-14

Sports and Recreation Administration Courses
PHED 507  ADMINISTRATION AND MANAGEMENT IN HEALTH AND PHYSICAL EDUCATION  3
PHED 522  RISK MANAGEMENT: SPORT AND SCHOOL LAW  3
PHED 524  SPORTS MARKETING  3
PHED 525  FACILITIES PLANNING, OPERATIONS AND MANAGEMENT  3
PHED 600  THESIS  9
or PHED 601  RESEARCH REPORT
or PHED 602  COMPREHENSIVE PREPARATION
& PHED 695  and INTERNSHIP

Total Credits  48-51

Student Learning Outcomes—students will

• investigate ideas and complete professional tasks as a member of a team;
• demonstrate familiarity with the scholarly publications, primary written works, professional organizations and certification/licensure requirements of their specialization;
• discuss advanced topics in their area of specialization with an appropriate level of knowledge and application of critical thinking;
• design, conduct and report scholarly work.

Public Health Major, Bachelor of Science (BS)

Public Health majors are professionals who design, conduct and evaluate activities that help improve the health of all people. Placements will be in a variety of settings including public health and non-profit health agencies, worksite wellness programs, colleges and universities and government agencies. The majors are prepared to sit for the National Commission for Health Education Credentialing (CHES) examination and for graduate programs in public health, health promotion and community health education.

Degree Requirements

1. a minimum ≥2.50 in each required Health Education course;
2. a minimum cumulative ≥2.50 shall be necessary in all upper- and lower-division required Public Health courses;
3. a minimum ≥2.0 in each of the supporting courses from Communication Studies and the Social and Behavioral Science Core;
4. a minimum cumulative GPA ≥2.50 shall be required for all university coursework;
5. must meet with major advisor once each quarter;
6. failure to comply with the above standards will prohibit Professional Internship eligibility.

Note: select supporting courses in consultation with departmental advisor.

The following requirements must be completed before declaring in the Public Health major.

≥2.5 grade required to declare Public Health major
CMST 420  HEALTH COMMUNICATION
CSBS 321  COMPUTER AIDED DATA ANALYSIS
ECON 452  HEALTH ECONOMICS
GEOG 226  INTRODUCTION TO GIS SOFTWARE DESIGN
GEOG 301  HUMAN GEOGRAPHY
GEOG 321  GIS FOR SOCIAL SCIENCES
GEOG 357  THE GEOGRAPHY OF CHILDHOOD
MGMT 326  ORGANIZATION THEORY AND BEHAVIOR
PLAN 375  TRIBAL PLANNING
PLAN 442  SUSTAINABLE COMMUNITIES
PSYC 317  HEALTH PSYCHOLOGY
PSYC 323  DRUGS AND BEHAVIOR
SOCI 351  SOCIAL STRATIFICATION
WMST 360  WOMEN IN PRISON

Recommended Minor list
Addiction Counseling and Prevention Minor (34 credits)
Certificate in Geographic Information Systems (24 credits)
Communication Studies Minor (19 credits)
Health Services Management Minor (20 credits)
Psychology Minor (20 credits)
Race and Culture Studies Minor (18 credits)
Urban and Regional Planning Minor (15 credits)

Total Credits 90-116

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Objectives—students will
• conduct needs assessments, design and implement health promotion programs, and carry out program evaluations;
• assess the values and perspectives of diverse individuals, communities, and cultures and their influence on health behaviors, choices, and practices;
• understand theories of health behavior and how to effectively facilitate change;
• engage in collaborative and interdisciplinary approaches for improving population health.
• understand major local, national, and global health challenges;
• understand how to conduct a literature search on a health issue using a variety of academic and public resources and be able to assess the quality of health information and data;
• appreciate the role of community collaborations in promoting population health;
• demonstrate cultural competence by implementing strategies for culturally diverse priority populations;
• identify various funding streams for public health;
• apply knowledge and skills to an internship experience which in turn will provide practical experience in the field.

Recreation and Tourism Management Major, Bachelor of Arts (BA)

Recreation Management is a growing and dynamic field. The tourism and recreation industry is currently listed as one of the top three business activities in the United States. There are many emphasis areas available in Recreation Management including: city/park recreation, resort/ commercial recreation, youth serving agencies, military recreation and corrections recreation.

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required;
• a minimum grade ≥2.50 must be obtained in each required RCLS course (if a lower grade is received, the course must be retaken);
• a minimum cumulative GPA ≥2.50 shall be necessary in all upper- and lower-division required RCLS courses;
• a minimum cumulative GPA ≥2.50 shall be required for all university coursework; failure to comply with the above standards will jeopardize professional internship eligibility.
• must see your recreation management advisor at least once per quarter.

Required Core Courses
RCLS 201  RECREATION AND LEISURE IN MODERN SOCIETY 3
RCLS 220  LEADERSHIP IN RECREATION AND LEISURE SERVICES 3
RCLS 240  OVERVIEW OF THERAPEUTIC RECREATION SERVICES 4
RCLS 270  DIVERSITY AND SOCIAL JUSTICE IN RECREATION AND LEISURE SERVICES 3
RCLS 313  WILDLAND RECREATION MANAGEMENT 3
RCLS 325  OUTDOOR ADVENTURE PROGRAMMING 3
RCLS 360  FACILITY PLANNING AND ENVIRONMENTAL DESIGN 3
RCLS 385  PROGRAMMING IN RECREATION AND LEISURE SERVICES 3
RCLS 400  LEGAL FOUNDATIONS IN RECREATION AND LEISURE SERVICES 4
RCLS 425  EVALUATION, RESEARCH AND STATISTICS IN RECREATION AND LEISURE SERVICES 4
RCLS 435  EMPLOYMENT PROCESSES IN RECREATION AND LEISURE SERVICES 2
RCLS 455  RESORT AND COMMERCIAL RECREATION MANAGEMENT 3
RCLS 470  ADMINISTRATION, ORGANIZATION AND SUPERVISION IN RECREATION AND LEISURE SERVICES 4
RCLS 480  BUDGETING IN RECREATION AND LEISURE SERVICES 4
RCLS 490  SENIOR CAPSTONE IN RECREATION 4

Required Supporting Courses
HLED 193  STANDARD FIRST AID AND SAFETY 2
RCLS 300  PUBLICITY AND PROMOTION IN RECREATION 4
RCLS 349  YOUTH SPORTS MANAGEMENT 3
RCLS 462  FOUNDATIONS OF TRAVEL AND TOURISM 3
RCLS 495  RECREATIONAL MANAGEMENT PROFESSIONAL INTERNSHIP 12

Total Credits 74
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate the ability to develop and lead a variety of recreationally and developmentally appropriate programs and activities across the human life span;
- demonstrate the ability to perform essential functions in the area of aquatics management;
- demonstrate the ability to perform essential functions in the area of sport management;
- demonstrate an understanding of the complexity and significance of the travel and tourism industry;
- demonstrate effective oral and written communication skills;
- demonstrate knowledge of and skill at research, problem solving, and critical thinking;
- demonstrate a working knowledge of technology and its various uses in the recreation profession;
- demonstrate an understanding of the history, breadth, depth, and complexity of the recreation and leisure services industry;
- demonstrate an awareness of diversity, equity, inclusion, and will demonstrate multi-cultural competence in recreation and leisure service delivery settings;
- demonstrate a working knowledge of the career and entrepreneurship opportunities available upon graduation.

Therapeutic Recreation Major, Bachelor of Arts (BA)

Therapeutic Recreation specialists are involved in helping individuals with disabilities learn the skills and attitudes necessary to develop a satisfying leisure lifestyle. Therapeutic Recreation is concerned with the treatment of conditions which are disabling and the facilitation of independent leisure functioning.

This major offers the student a track that will allow them to be eligible to take the national certification examination. The major is nationally accredited and provides a strong educational background for the student. Graduates tend to work in hospitals, state facilities, group treatment and community-based programs in the area of rehabilitation, leisure education and community integration.

Notes:

- two years of a single high school foreign language or one year of a single college level foreign language is required.
- current First Aid/CPR card is required for all majors.
- a minimum grade ≥2.50 must be obtained in each required RCLS course (if a lower grade is received, the course must be retaken);
- a minimum cumulative GPA ≥2.50 shall be necessary in all upper- and lower-division required RCLS courses;
- a minimum cumulative GPA ≥2.50 shall be required for all university coursework; failure to comply with the above standards will jeopardize professional internship eligibility.

Notes: Students interested in the Therapeutic Recreation Major must apply and be accepted into the Therapeutic Recreation program to start fall quarter. The required prerequisites are PSYC 100 with a grade ≥2.0; ENGL 201 (or equivalent English course) with a grade ≥2.0; and a passing grade in one college Chemistry class. The application also requires a 2–3 page essay addressing the following points: brief autobiography including some interesting facts about yourself (interests, hobbies, etc.), how you became interested in Therapeutic Recreation and any experiences you've had in this area and a description of your overall academic and career goals. Transcripts are required for transfer students only. The application form is available online on the PEHR Department website (http://www.ewu.edu/cale/programs/pehr/pehr-degrees/therapeutic-recreation).

*The deadline for submission is April 1st. Selection will be determined by application essay and overall grades from PSYC 100 and ENGL 201. Applications will be reviewed and students will be notified by the first week of May.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tr>
<td>RCLS 201</td>
<td>RECREATION AND LEISURE IN MODERN SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 220</td>
<td>LEADERSHIP IN RECREATION AND LEISURE SERVICES</td>
<td>3</td>
</tr>
<tr>
<td>RCLS 240</td>
<td>OVERVIEW OF THERAPEUTIC RECREATION SERVICES</td>
<td>4</td>
</tr>
<tr>
<td>RCLS 270</td>
<td>DIVERSITY AND SOCIAL JUSTICE IN RECREATION AND LEISURE SERVICES</td>
<td>3</td>
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<tr>
<td>RCLS 313</td>
<td>WILDLAND RECREATION MANAGEMENT</td>
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<tr>
<td>RCLS 325</td>
<td>OUTDOOR ADVENTURE PROGRAMMING</td>
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<td>RCLS 360</td>
<td>FACILITY PLANNING AND ENVIRONMENTAL DESIGN</td>
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<tr>
<td>RCLS 385</td>
<td>PROGRAMMING IN RECREATION AND LEISURE SERVICES</td>
<td>3</td>
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<tr>
<td>RCLS 400</td>
<td>LEGAL FOUNDATIONS IN RECREATION AND LEISURE SERVICES</td>
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<td>RCLS 425</td>
<td>EVALUATION, RESEARCH AND STATISTICS IN RECREATION AND LEISURE SERVICES</td>
<td>4</td>
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<td>RCLS 435</td>
<td>EMPLOYMENT PROCESSES IN RECREATION AND LEISURE SERVICES</td>
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<td>RCLS 455</td>
<td>RESORT AND COMMERCIAL RECREATION MANAGEMENT</td>
<td>3</td>
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<td>RCLS 470</td>
<td>ADMINISTRATION, ORGANIZATION AND SUPERVISION IN RECREATION AND LEISURE SERVICES</td>
<td>4</td>
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<tr>
<td>RCLS 480</td>
<td>BUDGETING IN RECREATION AND LEISURE SERVICES</td>
<td>4</td>
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<tr>
<td>RCLS 490</td>
<td>SENIOR CAPSTONE IN RECREATION</td>
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Required Supporting Courses

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<td>BIOL 232</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
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<tr>
<td>BIOL 233</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
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<tr>
<td>HLED 256 or BIOL 234</td>
<td>MEDICAL TERMINOLOGY</td>
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<td>PSYC 201</td>
<td>LIFE-SPAN DEVELOPMENT</td>
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<td>PSYC 302</td>
<td>ABNORMAL PSYCHOLOGY</td>
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<td>RCLS 345</td>
<td>THERAPEUTIC RECREATION FOR PEOPLE WITH DISABILITIES</td>
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<tr>
<td>RCLS 420</td>
<td>PROGRAM PLANNING AND EVALUATION IN THERAPEUTIC RECREATION</td>
<td>5</td>
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</tbody>
</table>
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate, through a variety of activities, and participate in events that give a better understanding of how an individual with a disability or illness can participate in leisure activities and apply that knowledge to their internship experience;
- demonstrate skills and techniques to assist individuals in learning to cope with the effects of their disabilities or illness;
- demonstrate the knowledge base to successfully complete the NCTRC Certification practice tests to better prepare students for the National Council on Therapeutic Recreation Certification (NCTRC) exam;
- demonstrate an understanding and application of the therapeutic recreation process: assessment, program planning, implementation and evaluation;
- demonstrate effective oral and written communication skills;
- demonstrate knowledge of and skill at research, problem solving, and critical thinking;
- demonstrate a working knowledge of technology and its various uses in the recreation profession;
- demonstrate an understanding of the history, breadth, depth, and complexity of the recreation and leisure services industry;
- demonstrate an awareness of diversity, equity, inclusion, and will demonstrate multicultural competence in recreation and leisure service delivery settings;
- demonstrate a working knowledge of the career and entrepreneurship opportunities available upon graduation.
Religious Studies

Garrett Kenney, Program Advisor
program page (https://www.ewu.edu/cale/programs/religious-studies)
229G Patterson Hall
509.359.6032

Undergraduate Minor
  • Religious Studies (p. 167)

Undergraduate Program

Religion strives to show connections and relationships among all types of human experience. As a major aspect of human life and culture, it receives systematic study in many disciplines. Therefore, many departments offer courses in this program.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Religious Studies Minor

This minor is designed for those students majoring in an allied discipline and preparing for graduate seminary study, or for students majoring in any other discipline but wishing to pursue the subject of religion for its importance in other fields. Students are also advised to consider other offerings in the humanities program. All interested students should consult with the program advisor or the coordinator of humanities.

Note: special substitutions may be made with the approval of the program advisor or the coordinator of the humanities program.

Required Courses

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HUMN 215</td>
<td>INTRODUCTION TO RELIGION</td>
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<td>Choose two courses from the following</td>
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<tr>
<td>ANTH 454</td>
<td>MYTH, MAGIC AND RITUAL</td>
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<tr>
<td>HUMN 315</td>
<td>EAST-WEST PHILOSOPHIES AND RELIGIONS</td>
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</tr>
<tr>
<td>PHIL 312</td>
<td>PHILOSOPHY OF RELIGION</td>
<td></td>
</tr>
<tr>
<td>Choose two courses from the following</td>
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<td></td>
</tr>
<tr>
<td>ANTH 436</td>
<td>POLITICS OF CULTURE: ISRAEL AND PALESTINE</td>
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</tr>
<tr>
<td>ANTH 454</td>
<td>MYTH, MAGIC AND RITUAL</td>
<td></td>
</tr>
<tr>
<td>ANTH 457</td>
<td>WITCHCRAFT, SORCERY AND SHAMANISM</td>
<td></td>
</tr>
<tr>
<td>ART 417</td>
<td>HISTORY OF MEDIEVAL ART</td>
<td></td>
</tr>
<tr>
<td>ENGL 385</td>
<td>MYTHOLOGY</td>
<td></td>
</tr>
<tr>
<td>ENGL 387</td>
<td>LITERATURE OF THE BIBLE</td>
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</tr>
<tr>
<td>ENGL 452</td>
<td>CHAUCER</td>
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<tr>
<td>HIST 320</td>
<td>MIDDLE EASTERN HISTORY AND CULTURE</td>
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<td>HIST 336</td>
<td>GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST</td>
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<td>HIST 341</td>
<td>RENAISSANCE AND REFORMATION</td>
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<tr>
<td>HUMN 315</td>
<td>EAST-WEST PHILOSOPHIES AND RELIGIONS</td>
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<td>HUMN 440</td>
<td>PERSPECTIVES ON DEATH</td>
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<td>PHIL 312</td>
<td>PHILOSOPHY OF RELIGION</td>
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<tr>
<td>PHIL 321</td>
<td>HISTORY OF MODERN WESTERN PHILOSOPHY</td>
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<tr>
<td>PHIL 331</td>
<td>CHINESE PHILOSOPHY</td>
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Total Credits: 25
Special Education

Tara Haskins, Chair
program page (https://www.ewu.edu/cale/programs/education/education-program-options/special-education-options)
312 Williamson
509.359.2831


Undergraduate Degrees

Bachelor of Arts in Education (BAE)

• Dual Endorsement Program in Special Education and Elementary Education (p. 168)

Undergraduate Minors

• Early Childhood Special Education (p. 169)

• Special Education (p. 169)

Teacher Certification/Add-on Endorsements

• Early Childhood Special Education/Add-on Endorsement (p. 169)

• Special Education/Add-on Endorsement (p. 169)

Dual Endorsement Program in Special Education and Elementary Education, Bachelor of Arts in Education (BAE)

The Dual Endorsement Program in Special Education and Elementary Education prepares students for teaching in the elementary grades (kindergarten to grade 8) as well as in special education classes (kindergarten to age 21). Students in this program complete the Washington state requirements for an endorsement in special education and in elementary education.

Prerequisites for Admission to the Education Program

• An Application for Admission is required for the Teacher Education Program. Application deadlines are as follows: Fall Quarter—May 15; Winter Quarter—October 15; Spring Quarter—January 15; Summer Quarter—April 15. If the deadline falls on a Saturday, Sunday or EWU holiday applications will be accepted the following business day. Candidates seeking admission should consult with the Undergraduate Student Services Coordinator from the Education Department. All prerequisites must be completed prior to admission.

• A grade ≥2.8 in all prerequisite courses is required.

• GPA Requirement: a minimum ≥2.8 GPA.

• Pass Washington Educator Skills Test-Basic (WEST-B): refer to west.nesinc.com (http://www.west.nesinc.com) for information on this Reading, Mathematics and Writing basic skills test. Satisfactory SAT or ACT scores may waive all or part of the WEST–B requirement. Please see an advisor in the education department.

• Speech Requirement: CMST 200 or CMST 201 (4) or an approved equivalent.

• English Requirement: ENGL 201 (5) or equivalent.

• Mathematics Requirement: MATH 211 is required for Elementary and P–3 Programs, MATH 107 or an approved equivalent is required for Secondary Program.

Required Elementary Education Core

30–hour multicultural education field requirement

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 200 &amp; EDUC 303</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT</td>
<td>7</td>
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<tr>
<td>&amp; EDUC 308</td>
<td>and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)</td>
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<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
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<tr>
<td>EDUC 304</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
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<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 338 &amp; EDUC 339</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
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<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
<td>15</td>
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<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
<td>5</td>
</tr>
<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
<td>5</td>
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<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
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<tr>
<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION (this course is also in the major and may only be counted once)</td>
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Prerequisites for Dual Endorsement Program in Special Education and Elementary Education

SPED 350 | SPECIAL EDUCATION RESEARCH METHODS | 5 |

Required Special Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION (this course is also in the elementary education core and may only be counted once)</td>
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<tr>
<td>SPED 412</td>
<td>INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION</td>
<td>4</td>
</tr>
<tr>
<td>SPED 420</td>
<td>PRINCIPLES OF BEHAVIOR FOR STUDENTS WITH EXCEPTIONAL NEEDS</td>
<td>4</td>
</tr>
<tr>
<td>SPED 421</td>
<td>CLASSROOM MANAGEMENT IN SPECIAL EDUCATION SETTINGS</td>
<td>4</td>
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<tr>
<td>SPED 460</td>
<td>SPECIAL EDUCATION METHODS</td>
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<tr>
<td>SPED 461</td>
<td>SPECIALLY DESIGNED INSTRUCTION FOR LANGUAGE ARTS</td>
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</table>
SPED 462  METHODS FOR TEACHING STUDENTS WITH AUTISM AND SEVERE DISABILITIES  4
SPED 464  SPECIALLY DESIGNED INSTRUCTION FOR MATH AND CONTENT AREAS  4
SPED 470  SPECIAL EDUCATION ASSESSMENT  4
SPED 480  INCLUSIONARY PRACTICES AND COLLABORATION  4
SPED 488  SPECIAL EDUCATION PRACTICUM (must be repeated)  6
SPED 490  SPECIAL EDUCATION CAPSTONE (or other approved capstone)  4
or ITGS 400  INTERDISCIPLINARY SR CAPSTONE

Total Credits  121

Student Learning Outcomes—students will

• demonstrate special education content knowledge competencies by passing the WEST-E Exam;
• apply special education knowledge and skills by passing special education field experiences.

Early Childhood Special Education Minor

The minor in Early Childhood Special Education is designed to assist general education teachers and other related services personnel to work more effectively with children with special needs from birth to grade 3.

This minor does not meet an endorsement.

Required Courses

SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4
SPED 412  INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION  4
SPED 460  SPECIAL EDUCATION METHODS  4

Total Credits  16

Special Education Minor

The minor in special education is designed to assist general education teachers and other related services personnel to work more effectively with students with special needs.

This minor does not meet an endorsement.

Required Courses

SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4
SPED 420  PRINCIPLES OF BEHAVIOR FOR STUDENTS WITH EXCEPTIONAL NEEDS  4
SPED 460  SPECIAL EDUCATION METHODS  4

Elective—choose one of the following  4-5

SPED 360  SPECIAL EDUCATION RESEARCH METHODS  5
SPED 412  INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION  4
SPED 421  CLASSROOM MANAGEMENT IN SPECIAL EDUCATION SETTINGS  4
SPED 461  SPECIALLY DESIGNED INSTRUCTION FOR LANGUAGE ARTS  4
SPED 464  SPECIALLY DESIGNED INSTRUCTION FOR MATH AND CONTENT AREAS  4
SPED 470  ASSESSMENT OF INFANTS AND YOUNG CHILDREN WITH DISABILITIES  4
SPED 480  INCLUSIONARY PRACTICES AND COLLABORATION  4

Total Credits  51

Special Education/Add-on Endorsement

For candidates who currently possess a Washington State Teaching Certificate.

This program meets the requirements for an endorsement in Early Childhood Special Education.

The Early Childhood Special Education add-on endorsement prepares teachers for working with infants and young children with disabilities and their families (birth to grade 3). Program focus is on effective intervention practices used in early childhood special education for home and school settings.

Required Courses

SPED 360  SPECIAL EDUCATION RESEARCH METHODS  5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4
SPED 412  INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION  4

Total Credits  16

Special Education/Add-on Endorsement

For candidates who currently possess a Washington State Teaching Certificate.

This program meets the requirements for an endorsement in special education in the state of Washington.

The Special Education add-on endorsement prepares teachers for working with students with disabilities from birth through age 21. The
program focuses on the use of specially designed instruction in school settings.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td>SPED 360</td>
<td>SPECIAL EDUCATION RESEARCH METHODS</td>
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<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
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<td>SPED 464</td>
<td>SPECIALLY DESIGNED INSTRUCTION FOR MATH AND CONTENT AREAS</td>
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<td>SPECIAL EDUCATION ASSESSMENT</td>
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<td>SPED 480</td>
<td>INCLUSIONARY PRACTICES AND COLLABORATION</td>
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<tr>
<td>SPED 488</td>
<td>SPECIAL EDUCATION PRACTICUM (must be repeated)</td>
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**Total Credits** 51
Theatre

Pete Porter, Chair
department page (https://www.ewu.edu/cale/programs/theatre)
107 RTV Building
509.359.6390

Faculty
Drew Ayers, Sara E. Goff, Shana Joslyn, Elisha Miranda, Chase N. Ogden, Peter S. Porter, Jeffrey A. Sanders, Marvin E. Smith.

Undergraduate Degrees
Bachelor of Arts (BA)
• Theatre (p. 171)

Undergraduate Minors
• Theatre (p. 172)
• Theatre/Elementary or Secondary (p. 172)

Undergraduate Programs
The Theatre Program offers a Bachelor of Arts in Theatre for those who wish to enter the profession or prepare for graduate school. A minor is available. This program is designed to give the student thorough preparation in all aspects of theatre, with the knowledge and skills to support any graduate school specialty. The range of elective courses permits a small amount of specialization within the curriculum, but the primary intention is to provide fundamental preparation for theatre professionals. In addition to classroom studies, the program offers valuable hands-on experience in virtually every phase of theatrical production, including acting, directing, singing, costuming and technical and design skills. Each major is expected to be available to work on every production in the department’s season.

Each university season is chosen for balance and variety. Productions range from classical to modern plays. Plays are produced in the University Theatre, a modern, well-equipped plant, opened in 1972 and historic Showalter Hall.

The University Theatre is located in the university’s Fine Arts Complex in close proximity to the Music, Art and Film programs. Students are encouraged to supplement their theatre studies with study in other fields in order to better understand theatre as an art form, a field of study in the liberal arts and as an area of human activity and endeavor.

Graduates with Bachelor of Arts degrees are traditionally employed in a variety of careers including: professional actors, dancers, arts administrators, and technicians in scenery, lighting, properties and sound design. Graduates are also employed in public relations, sales, management and other careers that require daily person-to-person contact and effective self-presentation. Recent Eastern graduates have been accepted in nationally recognized graduate programs in theatre and related fields. Many also teach at the elementary, middle and high school levels.

General Admissions Requirements for Theatre
High school graduates and community college transfer students who want to major in theatre should possess high verbal aptitude and effective skills in reading and writing. Moreover, theatre majors should possess an attitude of teamwork, strong self-discipline and a commitment to hard work for long hours. Previous coursework and participation in music, dance, acting, singing and back stage production is highly desirable, but not mandatory.

Students wishing to major in theatre should declare this major early in their university career. Entering freshman or transfer students should contact the Theatre and Film Department Chair immediately upon arrival at the campus for the assignment of an academic advisor and evaluation of transfer credits.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Theatre Major, Bachelor of Arts (BA)
Theatre majors are expected to complete a senior thesis and participate in the public performance program offered by the Theatre Program.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 110</td>
<td>MOVEMENT AND VOICE</td>
<td>3</td>
</tr>
<tr>
<td>THTR 202</td>
<td>THEATRE IN THE HUMANITIES (satisfies a general university requirement for Humanities, Fine Arts)</td>
<td>5</td>
</tr>
<tr>
<td>or HUMN 202</td>
<td>THEATRE IN THE HUMANITIES</td>
<td></td>
</tr>
<tr>
<td>THTR 210</td>
<td>ACTING I</td>
<td>4</td>
</tr>
<tr>
<td>THTR 226</td>
<td>STAGE MAKE-UP</td>
<td>1</td>
</tr>
<tr>
<td>THTR 303</td>
<td>SURVEY OF THEATRE HISTORY</td>
<td>5</td>
</tr>
<tr>
<td>or HUMN 303</td>
<td>SURVEY OF THEATRE HISTORY</td>
<td></td>
</tr>
<tr>
<td>THTR 310</td>
<td>ACTING II</td>
<td>4</td>
</tr>
<tr>
<td>THTR 330</td>
<td>STAGE COSTUME</td>
<td>3</td>
</tr>
<tr>
<td>THTR 331</td>
<td>THEATRE DESIGN AND TECHNOLOGY I</td>
<td>5</td>
</tr>
<tr>
<td>THTR 332</td>
<td>THEATRE DESIGN AND TECHNOLOGY II</td>
<td>5</td>
</tr>
<tr>
<td>THTR 338</td>
<td>CONCEPTS OF THEATRICAL DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>THTR 380</td>
<td>THEATRE EXPERIENCE (must be repeated four times)</td>
<td>4</td>
</tr>
<tr>
<td>THTR 412</td>
<td>ACTING: THE PROFESSION</td>
<td>4</td>
</tr>
<tr>
<td>or THTR 430</td>
<td>THEATRE DESIGN AND TECHNOLOGY III</td>
<td></td>
</tr>
<tr>
<td>THTR 421</td>
<td>DIRECTING I</td>
<td>4</td>
</tr>
<tr>
<td>THTR 422</td>
<td>DIRECTING II</td>
<td>4</td>
</tr>
<tr>
<td>THTR 491</td>
<td>SENIOR THESIS PROJECT</td>
<td>5</td>
</tr>
</tbody>
</table>

Electives—must select from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 221</td>
<td>NARRATIVE SCRIPT ANALYSIS</td>
<td></td>
</tr>
<tr>
<td>THTR 150</td>
<td>FUND OF MUSIC/DANCE THEATRE</td>
<td></td>
</tr>
<tr>
<td>THTR 312</td>
<td>SPECIAL SKILLS FOR ACTORS (may be repeated for credit when topic varies)</td>
<td></td>
</tr>
<tr>
<td>THTR 339</td>
<td>ACTING WORKSHOP: VARIABLE TOPICS (may be repeated for credit when topic varies)</td>
<td></td>
</tr>
<tr>
<td>THTR 399</td>
<td>SPECIAL STUDIES</td>
<td></td>
</tr>
<tr>
<td>THTR 410</td>
<td>ACTING III</td>
<td></td>
</tr>
</tbody>
</table>

Note: students can use selective THTR 496 courses as electives with permission of the program director.
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate the ability to act and direct in live theatre;
• analyze, interpret and apply a knowledge of dramatic literature, cultural history and aesthetics to aspects of production;
• articulate the role of the theatre within our own culture and the culturally diverse world;
• utilize the mechanics and aesthetics of technical theatre in design and production of live theatre;
• describe, demonstrate and communicate the knowledge of one through four above to elementary, middle school and high school students.

Theatre Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>NARRATIVE SCRIPT ANALYSIS</td>
<td>5</td>
</tr>
<tr>
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<td>MOVEMENT AND VOICE</td>
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</tr>
<tr>
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<td>THEATRE IN THE HUMANITIES</td>
<td>5</td>
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<td></td>
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<tr>
<td>THTR 210</td>
<td>ACTING I</td>
<td>4</td>
</tr>
<tr>
<td>THTR 226</td>
<td>STAGE MAKE-UP</td>
<td>1</td>
</tr>
<tr>
<td>THTR 331</td>
<td>THEATRE DESIGN AND TECHNOLOGY I</td>
<td>5</td>
</tr>
<tr>
<td>THTR 395</td>
<td>UNIVERSITY THEATRE INTERNESHIP (must be repeated three times)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 26

Theatre/Elementary or Secondary Minor

This minor satisfies the endorsement for preschool to grade 12.

Required Courses

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
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<td>NARRATIVE SCRIPT ANALYSIS</td>
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<td>THTR 110</td>
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<td>3</td>
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<tr>
<td>THTR 150</td>
<td>FUND OF MUSIC/DANCE THEATRE</td>
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</tr>
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<tr>
<td>THTR 226</td>
<td>STAGE MAKE-UP</td>
<td>1</td>
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<tr>
<td>THTR 303</td>
<td>SURVEY OF THEATRE HISTORY</td>
<td>5</td>
</tr>
<tr>
<td>THTR 310</td>
<td>ACTING II</td>
<td>4</td>
</tr>
<tr>
<td>THTR 326</td>
<td>CREATIVE DRAMATICS</td>
<td>3</td>
</tr>
<tr>
<td>THTR 330</td>
<td>STAGE COSTUME</td>
<td>3</td>
</tr>
<tr>
<td>THTR 331</td>
<td>THEATRE DESIGN AND TECHNOLOGY I</td>
<td>5</td>
</tr>
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<td>THEATRE DESIGN AND TECHNOLOGY II</td>
<td>5</td>
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<tr>
<td>THTR 395</td>
<td>UNIVERSITY THEATRE INTERNESHIP (must be repeated three times)</td>
<td>3</td>
</tr>
<tr>
<td>THTR 421</td>
<td>DIRECTING I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 53
COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION

Departments, programs and degrees are listed on the navigation bar. CBPA home page (http://www.ewu.edu/cbpa)
Business Administration

Department of Finance & Marketing
Dean Kiefer, Chair
324 Riverpoint
509.828.1206

Department of Information Systems & Business Analytics
Duanning Zhou, Chair
307 Riverpoint
509.828.1203

Department of Management
Patricia Nemetz-Mills, Chair
326 Riverpoint
509.828.1235

Department of Professional Accounting
Arsen Djatej, Chair
350 Riverpoint
509.828.1250

Undergraduate Business Program Advisors
Karen Morley
345 Patterson Hall
509.359.6277

Jodi Strote
349 Riverpoint
509.828.1249

Faculty


Undergraduate Degrees
Bachelor of Arts in Business Administration (BAB)
• Entrepreneurship (p. 181)
• Finance (p. 182)
• International Business (p. 183)
• Management - General Business Option (p. 185)
• Management - Human Resource Management Option (p. 185)
• Management - Operations Management Option (p. 186)
• Management Information Systems (p. 184)
• Marketing (p. 187)
• Professional Accounting (p. 187)

Undergraduate Minors
• Accounting (p. 179)
• Business Administration (p. 180)
• Business Analytics (p. 180)
• Data Analytics (p. 181)
• Entrepreneurship (p. 182)
• Information Security (p. 183)
• International Business (p. 184)
• Management Information Systems (p. 184)

Undergraduate Programs
The College of Business and Public Administration at Eastern offers excellent business programs taught by a mix of research producing, terminally qualified faculty and practitioners who are deeply engaged in their professions.

The College is known for these strengths:
• Business Administration degrees accredited by AACSB-International
• classes which allow participation and personal attention
• excellent computer systems and labs available to students
• many opportunities to engage in practical research with professors
• day and evening classes
• internship opportunities

A solid theoretical foundation balanced with practical application is critical to being successful in business. Eastern Washington University’s business programs provide that balance, with emphasis on analysis, critical thinking and intellectual inquiry. An understanding of the economic, social, ethical and legal business environment—along with principles of accounting, finance, management, marketing, production and quantitative analysis, all taught from a global perspective—is part of all Eastern’s business programs.

Preparation Information for Business: The College of Business and Public Administration recognizes the importance of certain basic skills for a career in business. Students planning to enter a degree program in Business Administration are encouraged to prepare through courses in written and oral communications, mathematics and computer fundamentals. These skills will be further developed through coursework in the Business Administration curriculum. All Business Administration students are encouraged to enroll in BUED 302 Business Communication to supplement their communication skills.

Transferring Business Courses from Other Institutions: Eastern Washington University has articulated agreements with all community colleges in the state of Washington and with certain community colleges in Idaho, Montana and Oregon regarding the transferability of courses
Coursework of students transferring from other institutions of higher education is evaluated on a course-by-course basis to determine equivalence to EWU Business Administration courses. Students seeking a degree in Business Administration must complete a minimum of 50 percent of business credit hours required for the degree in residence at EWU. Additionally, students must complete a minimum of 50 percent of the required courses in the major at EWU. Students seeking a minor in Business Administration, Decision Science, International Business or Management Information Systems must complete a minimum of 12 credits in the minor at EWU.

It is the policy of the College of Business and Public Administration that students, once admitted to and pursuing a course of study at EWU in Business Administration, will take their required courses at EWU. A student wishing to take a course at another institution with the intention to transfer that course into his/her degree program at EWU must receive approval from either the Business Undergraduate Program Advisors (lower division courses) or the appropriate department chair (upper division courses).

**Course Enrollment Policies: undergraduate Business Administration courses are offered under the following prefixes:**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Accounting</td>
</tr>
<tr>
<td>BUED</td>
<td>Business/Marketing Education</td>
</tr>
<tr>
<td>DSCI</td>
<td>Decision Science</td>
</tr>
<tr>
<td>ENTP</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>FINC</td>
<td>Finance</td>
</tr>
<tr>
<td>HUMR</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>IBUS</td>
<td>International Business</td>
</tr>
<tr>
<td>MGMT</td>
<td>Management</td>
</tr>
<tr>
<td>MISC</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>MKTG</td>
<td>Marketing</td>
</tr>
<tr>
<td>OPSM</td>
<td>Operations Management</td>
</tr>
<tr>
<td>CTEDE</td>
<td>Career and Technical Education</td>
</tr>
</tbody>
</table>

**Education**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUED</td>
<td>Business/Marketing Education</td>
</tr>
</tbody>
</table>

**Business Administration courses numbered 300 and above (with the exception of BUED 302, DSCI 346, MGMT 326, MKTG 310, FINC 335 and OPSM 330) are intended for students who either:**

1. are formally admitted to the BAB program or
2. have post-baccalaureate standing and have completed the prerequisite courses or
3. have formally declared majors in another degree program, have completed the prerequisite courses and have the appropriate clearances and class standing, and are taking the course for one of the following reasons:
   a. required for their major;
   b. required for their minor;
   c. fulfills a gecr, or International Studies requirement.

Students are also expected to satisfy course prerequisites as listed in this catalog. Students who do not meet one of the above criteria, or who have not satisfied course prerequisites, will be dropped from the course.

**Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.**

Admission Requirements for the College of Business and Public Administration Bachelor of Arts in Business Administration (BAB): The College of Business and Public Administration has specific requirements for formal admission into the Bachelor of Arts in Business Administration (BAB) degree program. These requirements must be met before continuation into upper division business courses. Contact the Academic Advisors for Undergraduate Business Programs for current requirements.

**Grade Requirements for Graduation—Students seeking a BAB degree must achieve:**

1. a minimum grade ≥2.0 in each course required for the major;
2. formal admission to the BAB program;
3. a minimum GPA ≥2.5 for all upper division Business Administration core courses as well as required and elective courses taken to fulfill requirements for the major area.

Students seeking a minor in Accounting, Business Administration, Business Analytics, Data Analytics, Entrepreneurship, International Business, Information Security Management or Management Information Systems must achieve a minimum grade ≥2.0 in each course that fulfills a requirement for the minor.

**Course Repeat Policy**

The Undergraduate Business Program’s course repeat policy limits students to three graded attempts for each requirement for their business major or minor, including all requirements listed on the business administration core and business classes required for the major or minor. If a requirement for the major or minor is not successfully completed with a minimum grade ≥2.0 on the third graded attempt, the student will be dropped from the program.

For fulfillment of each course requirement, the business program will consider the first three times a student completes the course; further attempts of the course will not be accepted. In accordance with EWU’s repeat policy, only the most recent of the (first) three completions will be accepted. Completion is defined as receiving a final grade in the course.

A student who has been denied admission to the business program or who has been dropped from the program based on application of this policy may seek admission into the program or continuation through petition to the Dean of the College of Business and Public Administration.

The policy applies to all business program core, major and minor requirements and includes graded attempts of these requirements at colleges and universities other than EWU. For the specific requirements, refer to the General Undergraduate Catalog or the Business Advising website.

It is anticipated that enforcement of the policy will not be handled automatically by the student information system but will require review of transcripts at the time of admission to the business program and/or review of transcript/graduation forms just prior to graduation. Information as to the policy and the student’s obligation to understand and follow it will be included on program advising information and admission forms and in EWU catalog information.
When a student declares business administration as a degree program, the student will be informed of this policy by the business advisor. If a student applying for formal admission to the business program has completed a business program requirement a third time with a grade <2.0, the student will be informed by the business advisor that the student is not admissible and that further attempts of the course will not be considered. If a student has been formally admitted to the business program and then completes a business program requirement a third time with a grade <2.0, the student will be dropped from the program and informed by the business advisor that further attempts of the course will not be considered. (Go to Business Advising (http://www.ewu.edu/businessadvising) for details.)

Assessment Requirement
The Comp–XM Exam will be administered as part of the MGMT 490 business capstone course. It will serve to assess student learning goals relative to the fundamental knowledge of the core business disciplines as well as the students’ ability to integrate their knowledge to arrive at informed decisions.

Program Location
The Bachelor of Arts in Business Administration (BAB) is offered at four locations: at Eastern’s main campus in Cheney, EWU Spokane at the Riverpoint Campus, in Bellevue at Bellevue College and Longview at Lower Columbia College. All Business Administration Core courses are available at all locations. The following majors are available:

Cheney Campus and EWU Spokane
- Accounting, Professional
- Entrepreneurship
- Finance
- International Business
- Management
- Management Information Systems
- Marketing

Bellevue and Longview
- Management

Support services, including registration and advising from both the Undergraduate Program Advisor for Business and from faculty members, is available at three locations.

Degree Requirements for Bachelor of Arts in Business Administration
All students seeking a degree in Business Administration must complete the Business Administration Core plus courses for at least one major.

Graduate Degrees
Master of Business Administration (MBA)
- Business Administration (p. 179)

Affiliated Programs
- International Dual Degree Program (p. 178)
- Dual MBA/MPA Degree Program (p. 179)

Graduate Programs
Martine Duchatelet, Interim Director
EWU Spokane, 668 N. Riverpoint
Spokane WA 99202-1677

509.828.1232

The Master of Business Administration is an advanced professional degree in business administration emphasizing quantitative and qualitative skills necessary for leadership in today’s organizational environment. It prepares students for management positions in business firms, government agencies and not-for-profit entities. Organizations need leaders who can work well in group situations, appreciate the value of diversity, foster creativity and innovation, create an entrepreneurial spirit and provide practical solutions to real-world problems. Managers today are faced with complex global problems and a rapidly changing business environment, so they must have an appreciation for lifelong learning. The MBA at Eastern Washington University is designed to equip graduates with required skills, knowledge and abilities to flourish in a complex organizational environment.

Accreditation
Graduate programs in business began in 1966 and the Master of Business Administration (MBA) was authorized in 1975. Both the graduate and undergraduate business programs are accredited by AACSB-International.

Admission Requirements/Preparation
To be admitted to the MBA, an applicant must hold a four-year baccalaureate degree in any field of specialization from an accredited college or university. An applicant’s qualifications will be assessed though the quality of performance in prior academic programs as well as general aptitude measured by the GMAT* or GRE*. Other integral factors in the decision making process include work experience, résumé and letter of intent.

Admission will be considered only after all of the following documents have been received from the applicant:

1. the application for admission to a graduate program at Eastern Washington University;
2. one copy of official transcripts for all collegiate work completed;**
3. official GMAT scores or GRE scores (no more than five years old);
4. a $50 MBA application fee, in addition to the $50 graduate application fee;
5. letter of intent demonstrating a level of knowledge and intellectual maturity appropriate to the MBA;
6. other information which may be required at the discretion of the MBA program director may include the following:
   - admissions interview;
   - a current résumé;
   - references;
   - an essay demonstrating critical thinking skills.

*the GMAT/GRE requirement may be waived for students who have earned an undergraduate business degree with a cumulative undergraduate GPA of 3.5 or higher from an AACSB business school or equivalent. This requirement may also be waived for students with a 3.0 GPA and five or more years of professional business experience. Waiver to be determined by the MBA Director.

**EWU alumni do not need to request their transcripts be sent to the Graduate Programs office.

In addition to the above requirements, international students must demonstrate English language competency by taking the Test of English as a Foreign Language (TOEFL). A minimum score of 92 Internet-based
Test (TOEFL iBT) or 580 paper-based TOEFL is required to be considered for MBA Program admission. (7.0 International English Language Test (IELTS) is also accepted)

Note: admission to the MBA foundation coursework requires a TOEFL of at least 71 iBT or 525 paper-based TOEFL or 6.0 IELTS.

All of the above materials should be sent directly to:
Graduate Programs Office
206 Showalter Hall
Cheney, WA 99004–2444

MBA Program Admission Exception Policy
The MBA Program admission exception policy is an alternate admission process. The MBA director will consider applications from students requesting an exception to the minimum admission criteria of an application GPA ≥3.0 and a 450 GMAT or GRE equivalent. In order to be considered for exception students must submit a letter of appeal and a current résumé and must possess an index score (GPA x 200 + GMAT) of at least 1050. The director will review the applications throughout the year and will consult with the MBA Curriculum Committee as necessary. Admission exceptions will be recommended by the director.

Letters of appeal for admission exception should include the following information:
• why you want the Master of Business Administration degree?
• why you feel that you are capable of successfully completing this degree?
• anything else you feel the MBA committee should know.

Application Deadlines
Eastern admits MBA students throughout the academic year. The Graduate Programs Office accepts applications no later than 10 business days before the start of the term of intended enrollment. Applicants must make an appointment with the MBA program director before they begin the program. During that interview the applicant will be advised about program details, schedules and any foundation requirements that must be completed before starting the advanced program. Applicants will be advised by letter from the Graduate Programs Office concerning the admission decision.

Mathematics and Communications Skills Required
The MBA program requires competency on the part of the student in quantitative skills, computer skills and written and oral communication skills. Students lacking these skills are urged to improve them before applying for admission to the program. Courses in finite mathematics, computer literacy and oral and written communications are stressed as necessary preparation. Courses in differential calculus are highly recommended.

Computers and Research
The courses of the MBA curriculum have been infused with the application of computer technology in managerial decision-making. In addition, MBA students may expect that the courses will require considerable research beyond assigned course texts. Eastern offers computer labs and computer access to nationwide data banks. MBA students also have access to the John F. Kennedy library on the Cheney campus and the EWU Spokane Campus library system on the EWU Spokane Campus.

Academic Requirements
Students in the MBA program must maintain a GPA ≥3.0 at all times. Students who fall below a GPA ≥3.0 are notified by the Graduate Programs Office that they are officially on probation. These graduate students will be allowed one quarter’s study to restore their cumulative GPA to >3.0 level.

The MBA Curriculum Committee of the College of Business and Public Administration may extend this probationary period by one quarter when they feel such an extension is warranted by special circumstances. Those students who are unable to restore their cumulative GPA to ≥3.0 in this additional quarter of probation will be terminated from the program.

No course grade <2.5 may count toward the MBA degree. Only two courses in the student’s program may be <3.0. Students who have more than two grades <3.0 are subject to dismissal from the program and will be notified by the MBA program director.

Students who are dismissed for academic reasons may appeal to the MBA Curriculum Committee. The committee may allow students to repeat up to two courses in which they received a grade <3.0. The average of the original grade and the grade earned by repeating must be ≥3.0. A given course can be repeated only once. If the average grade is still <3.0, no further remedy is available and the average grade counts.

With readmission granted through appeal students must maintain these same academic standards; however, if they again fall below these standards they will be dismissed and no further appeal remedy will be available to them. Students who are not recommended for continuation must wait one year to reapply for admission to graduate studies.

Students are expected to successfully complete courses for which they register. Thus, the record of any student with more than two W (withdrawal) or X (incomplete) course grades will also be reviewed by the MBA program director, with termination from the program as a possible consequence.

Other graduate academic requirements are set forth in the opening section of the catalog under Graduate Studies Academic Policies. Entering MBA students will be apprised of these regulations at their initial interview with the MBA program director following admission to the program.

The student has the right of appeal to the MBA Curriculum Committee on any actions taken under these grade standards and the probation process. According to university policy, the student also has the right to appeal individual grades.

In the event that a student is dismissed from the program twice as a result of these rules, readmission will not be permitted.

Advising and Special Counseling
All entering students should consult with the director of the MBA program for program information and determination of the student’s interests. The director recommends a program of study compatible with each student’s goals and interests and the MBA program requirements.

Reserved Classes
MBA courses at EWU are reserved exclusively for students who have been formally admitted to the MBA program or other master’s degree programs and who have met all prerequisites for the courses or who have permission of the MBA program director.

Study Groups
Managers interact and so do MBA students. The MBA program makes use of group study, analysis and presentation. Students are frequently assigned to teams of three, four or five or more individuals. Assignments are sometimes based upon assembling a team with diverse academic
and work experience backgrounds. Teams are expected to prepare and present many assignments collaboratively.

Working in a group is good reinforcement of management practice, helping to develop interpersonal skills and effectiveness in small group decision-making. Group members begin to understand and appreciate others’ points of view. Study groups also reinforce the managerial technique of networking. Successful managers often draw upon resources from individuals outside the organizations they serve.

**Practical Business Experience**

All students who graduate from the MBA program should have some practical work experience. The majority of the students accepted into the program are working professionals and meet this requirement. For those students who enter the program lacking professional work experience, an internship should be part of the student’s MBA program. Up to four (4) credits earned while in an internship may be used for MBA elective credit.

**Degree Candidacy**

No more than one-half of the minimum number of credits in the advanced program may be counted toward the MBA degree before the total program is planned and the application for degree candidacy is submitted.

**MBA Comprehensive Experience**

The MBA comprehensive experience includes functionally integrative case studies to assess critical thinking across functions and complex simulated decision-making exercises.

**Oral Examination Requirement**

Those students electing a BADM 600 Thesis or a BADM 601 Research Report will present and defend the results of their research to an oral examination committee chaired by the thesis or research project advisor, with a second member from the College of Business and Public Administration and a faculty member from an area outside their discipline. The Graduate Programs Office will select this member. These students will schedule their orals at times mutually convenient to them and the three committee members.

**Course Schedules and Time Limits**

MBA courses are conducted in the evenings at EWU Spokane. Evening classes are held one night per week from 6 to 9:40 p.m. Three-fourths of the minimum credits required for the MBA degree (at least 36 credits) must be earned in Eastern Washington University resident courses. The remaining credits may consist of approved Eastern extension credits or approved residence or extension credits from other accredited institutions, provided they meet the advisor-approved program.

The MBA program must be completed within six years after the first applicable advanced course has been undertaken. The minimum time to degree for a full-time student is one year (four quarters). Most courses are 4 credit hours. The maximum allowable load is 16 credit hours. MBA students who are employed usually carry no more than 8 credits (two courses).

**Visiting Graduate Students**

Visiting graduate students may enroll in MBA program courses on a space-available basis, provided they have delivered to the MBA program director documentary proof from their home institution that they are bona fide graduate students in good standing and that their home institution will accept Eastern’s courses as part of their degree program. Such documentation shall be in the form of a letter signed by a home institution official and addressed to Eastern's MBA program director. In order to register and have their coursework recorded on an EWU graduate transcript, visiting graduate students must submit a graduate non-degree seeking application to the Graduate Programs Office at least 10 business days before the start of the term of intended enrollment.

**Affiliated Programs**

**International Dual Degree Program—MBA/MA in International Business and Economics**

A dual-degree program is available in cooperation with the Schmalkalden University of Applied Sciences in Schmalkalden (HS), Germany. This program combines the EWU M.B.A. and a Master of Arts in International Business and Economics from HS in Schmalkalden, Germany. This opportunity allows a student to earn two master’s degrees in an accelerated schedule of studies. All coursework is taught in English.

EWU students will take the entire MBA curriculum at EWU plus study abroad for one semester at HS. They will begin a thesis at HS and finish it upon returning to EWU.

The HS MA degree requires a total of 120 European Credit Transfer System (ECTS) credits. Students will transfer 48 EWU MBA credits to HS, or the equivalent of 60 European Credit Transfer System (ECTS) credits. These transfer credits will be applied toward the MA degree.

In addition, they will take 30 ECTS credits (the equivalent of 24 EWU credits) of coursework at HS plus write an HS thesis for another 30 ECTS credits, thus acquiring the necessary 120 ECTS credits for the MA degree.

Students will present and defend the results of their thesis to an oral examination committee chaired by the thesis or research project advisor from the HS according to their guidelines. A faculty member from the College of Business and Public Administration and an EWU faculty member from an area outside their discipline will be required. The Graduate Programs Office will select this member. The oral exam will be conducted at EWU and include video conferencing with the Schmalkalden faculty members. These students will schedule their orals at times mutually convenient to them and the committee members.

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**Table: Course Schedules and Time Limits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 520</td>
<td>DATA DRIVEN DECISION MAKING</td>
<td>4</td>
</tr>
<tr>
<td>BADM 530</td>
<td>CORPORATE FINANCE</td>
<td>4</td>
</tr>
<tr>
<td>BADM 540</td>
<td>MARKETING MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>BADM 552</td>
<td>LEADERSHIP AND ETHICS</td>
<td>4</td>
</tr>
<tr>
<td>BADM 555</td>
<td>STRATEGIC OPERATIONS</td>
<td>4</td>
</tr>
<tr>
<td>BADM 560</td>
<td>DECISION MAKING AND ACCOUNT INFORMATION</td>
<td>4</td>
</tr>
</tbody>
</table>
Accounting Minor

Sample of Coursework Offered at HS
Note: Courses are subject to changes. Specific coursework to be completed will be specified by the program directors and may result in the need to take additional credits beyond the minimum requirements above.

Accounting
Investment Appraisal (ECTS winter) 8  
Management Control Systems (ECTS summer) 5

Advanced Economics
Institutional Economics (ECTS summer) 5  
Labour Economics (ECTS winter) 5  
Managerial Economics (ECTS summer) 5  
Regional Economics (ECTS summer) 5

Computer-Based Analysis
Econometrics (ECTS winter) 8  
Experimental Econometrics (ECTS winter) 6  
Marketing Research (ECTS summer) 6

International Economics
International Financial Markets and Portfolio Selection Theory (ECTS winter) 6  
International and European Economic Law (ECTS winter) 5  
International Monetary Economics (ECTS winter) 5

Management
Organisational Behaviour (ECTS winter) 6

Philosophy
Economic Philosophy (ECTS summer) 5  
Political Philosophy (ECTS winter) 5  
Philosophy of Science (ECTS summer) 5

Strategic and International
Human Resource Management (ECTS summer) 6  
Strategic and International Marketing (ECTS winter) 6  
Treasuring (ECTS winter) 6

Dual MBA/MPA Degree Program
A dual-degree program is available with the Master of Public Administration (MPA) program. This dual-degree program combines the requisite supervisory and administrative education for career advancement in either the public or private sectors and bridges the regulatory and supplier aspects of business and government relationships.

Those enrolling in the dual-degree program must be admitted through the Graduate Programs Office and by both the MBA program and the graduate program in Public Administration (MPA). The student also must have satisfied the undergraduate background (prerequisite) course requirements of both programs at the time of entry or soon thereafter.

Students interested in the specific requirements of this dual-degree program must contact either the MPA program director at 509.828.1239 or the MBA program director at 509.828.1232 to be advised in advance of consideration for admission.

Note: the degree is open to all EWU undergraduate students who have declared a major that is not accounting; students who pursue minor in accounting must fulfill the prerequisites for each course.

Required
ACCT 251 PRINCIPLES OF FINANCIAL ACCOUNTING 5  
ACCT 252 PRINCIPLES OF MANAGEMENT ACCOUNTING 4  
ACCT 351 INTERMEDIATE ACCOUNTING I 4  
ACCT 356 COST ACCOUNTING I 4

Required Electives-choose two from the following
ACCT 352 INTERMEDIATE ACCOUNTING II 4  
ACCT 353 INTERMEDIATE ACCOUNTING III 4  
ACCT 357 COST ACCOUNTING II 4  
ACCT 358 ACCOUNTING FOR NON-PROFIT ENTITIES 4  
ACCT 359 ACCOUNTING SYSTEMS 4  
ACCT 450 AUDITING 4  
ACCT 452 CONTEMPORARY ACCOUNTING THEORY 4  
ACCT 454 FEDERAL INCOME TAX I 4

Total Credits 25

• obtain knowledge and understanding of advanced accounting topics.

Business Administration, Master of Business Administration (MBA)

The Master of Business Administration is an advanced professional degree in business administration emphasizing quantitative and qualitative skills necessary for leadership in today’s organizational environment. It prepares students for management positions in business firms, government agencies and not-for-profit entities. Organizations need leaders who can work well in group situations, appreciate the value of diversity, foster creativity and innovation, create an entrepreneurial spirit and provide practical solutions to real-world problems. Managers today are faced with complex global problems and a rapidly changing business environment, so they must have an appreciation for lifelong learning. The MBA at Eastern Washington University is designed to equip graduates with required skills, knowledge and abilities to flourish in a complex organizational environment.

MBA Program Structure and Coursework

Students with no formal education in business administration may need to complete up to 32 credits of foundation coursework. The specific courses and the resulting required credit hours will be determined by an assessment of each student’s educational background and professional experience. Graduate students in the MBA program have options when fulfilling their foundation course requirements. Students can take courses at EWU or another accredited college or university. Other course equivalents need to be approved by the MBA program director. Students must meet with the MBA program director to determine which foundation courses need to be fulfilled. Students may not register for the MBA core courses until they have fulfilled these requirements:

Foundational Knowledge (for those requiring additional business preparation)
ACCT 261 BUSINESS LAW 4  
BADM 500 ECONOMIC ANALYSIS 4  
or ECON 200 INTRODUCTION TO MICROECONOMICS  
& ECON 201 and INTRODUCTION TO MACROECONOMICS
This option allows the student to write a thesis under the direction of a committee of faculty teaching graduate courses. The student can earn a minimum of 4 credits and maximum of 8 credits depending upon the extent and depth of research involved. If students elect to write a 4 credit thesis, they will select 16 credits of elective coursework (in consultation with their advisor) from approved elective courses as outlined under Option I. Likewise, if students elect to write an eight (8) credit thesis, the will select 12 credits of elective coursework. Students choosing Option III must have permission of the MBA Program Director and must pass an oral examination.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 503</td>
<td>QUANTITATIVE ANALYSIS IN BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>or DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td></td>
</tr>
<tr>
<td>&amp; DSCI 346</td>
<td>and ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td></td>
</tr>
<tr>
<td>BADM 505</td>
<td>ESSENTIALS OF ACCOUNTING</td>
<td>4</td>
</tr>
<tr>
<td>or ACCT 251</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td></td>
</tr>
<tr>
<td>&amp; ACCT 252</td>
<td>and PRINCIPLES OF MANAGEMENT ACCOUNTING</td>
<td></td>
</tr>
<tr>
<td>BADM 541</td>
<td>MANAGERIAL COMMUNICATIONS (or acceptable score on GMAT or GRE-Verbal or TOEFL)</td>
<td>4</td>
</tr>
<tr>
<td>or CMST 568</td>
<td>INTRODUCTION TO GRADUATE STUDIES</td>
<td></td>
</tr>
<tr>
<td>or ENGL 568</td>
<td>TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY</td>
<td></td>
</tr>
<tr>
<td>FINC 335</td>
<td>FINANCIAL MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 326</td>
<td>ORGANIZATION THEORY AND BEHAVIOR</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 310</td>
<td>PRINCIPLES OF MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>OPSM 330</td>
<td>OPERATIONS MANAGEMENT</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Core Coursework**

- BADM 520 DATA DRIVEN DECISION MAKING 4
- BADM 530 CORPORATE FINANCE 4
- BADM 540 MARKETING MANAGEMENT 4
- BADM 552 LEADERSHIP AND ETHICS 4
- BADM 555 STRATEGIC OPERATIONS 4
- BADM 560 DECISION MAKING AND ACCOUNT INFORMATION 4
- BADM 590 MBA CAPSTONE 4

In addition to the above required courses all students must choose from the following options:

**Option 1 - Elective Coursework**

Students choosing this option will be required to take twenty (20) credits of MBA elective courses. Students may elect to take courses from other graduate programs if these courses help them achieve their objectives and are preapproved by the MBA Director. Students in this option will be required to enroll in and pass BADM 590. Students who do not pass the BADM 590 may retake it no more than one additional time. Students who do not pass BADM 590 either the first or second time may subsequently elect to enroll in BADM 603 Final Project, which will increase the number of credits required to graduate by 2 credits (50 total). Students will be charged for the extra 2 credits. If students fail to pass either BADM 590 (after two attempts) or BADM 603, the MBA degree will not be awarded.

**Option II - Research Report**

The student conducts a research project and prepares a written report under the direction of a committee of faculty teaching graduate courses. The student can earn a minimum of four and a maximum of eight credits depending upon the extent and depth of research involved. If students elect to conduct a four (4) credit research report, they will select sixteen (16) credits of elective coursework (in consultation with their advisor) from approved elective courses as outlined under Option I. Likewise, if students elect to conduct an eight (8) credit research report, they will select twelve (12) credits of elective coursework. Students choosing Option II must have permission of the MBA Program Director and must pass an oral examination.

**Option III- Thesis**

Business Analytics Minor

Business Analytics is a high-demand field composed of a hybrid of information systems, applied statistics, management science, data analysis, operations research, consumer behavior, risk management, and decision support. The focus is on the analysis of data to develop decision models in a business environment.

Notes:

- this minor is offered only to Bachelors of Arts in Business Administration (BAB) students due to the prerequisite requirements;
- non-BAB students should take the Data Analytics minor;
- given the level of quantitative, critical thinking, and problem-solving skills necessary to complete this minor, students should have a GPA ≥3.0 before starting this minor;
- enrollment is restricted to those who have been formally accepted into the BAB program;
• due to the cross disciplinary nature of Business Analytics, the following business core courses should be completed before starting this minor: ACCT 251, ACCT 252, DSCI 245, DSCI 346, ECON 200, ECON 201, FINC 335, MISC 211, MKTG 310, and OPSM 330.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 445</td>
<td>INTRODUCTION TO BUSINESS ANALYTICS</td>
<td>4</td>
</tr>
<tr>
<td>MISC 373</td>
<td>BUSINESS DATABASE APPLICATIONS</td>
<td>4</td>
</tr>
<tr>
<td>MISC 374</td>
<td>SPREADSHEET MODELING FOR BUSINESS APPLICATIONS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives—choose two from the following**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 446</td>
<td>BUSINESS FORECASTING</td>
<td></td>
</tr>
<tr>
<td>DSCI 447</td>
<td>DESIGN OF EXPERIMENTS</td>
<td></td>
</tr>
<tr>
<td>DSCI 448</td>
<td>BUSINESS SIMULATION</td>
<td></td>
</tr>
<tr>
<td>DSCI 449</td>
<td>MULTIVARIATE DATA ANALYSIS</td>
<td></td>
</tr>
<tr>
<td>DSCI 450</td>
<td>DATA VISUALIZATION</td>
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</tbody>
</table>

**Note:** Courses may not be double counted with another major or minor. If this occurs, courses not counted for this minor may be replaced by ones from the following.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FINC 432</td>
<td>RISK MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>FINC 434</td>
<td>FINANCIAL DERIVATIVES</td>
<td></td>
</tr>
<tr>
<td>FINC 435</td>
<td>CAPITAL BUDGETING AND LONG-TERM FINANCING</td>
<td></td>
</tr>
<tr>
<td>FINC 436</td>
<td>SHORT-TERM FINANCIAL MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>MKTG 411</td>
<td>MARKETING RESEARCH</td>
<td></td>
</tr>
<tr>
<td>MISC 371</td>
<td>BUSINESS APPLICATIONS PROGRAM DESIGN</td>
<td></td>
</tr>
<tr>
<td>MISC 481</td>
<td>SYSTEMS ANALYSIS AND DESIGN</td>
<td></td>
</tr>
<tr>
<td>MISC 485</td>
<td>ADVANCED DATABASE APPLICATIONS DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>MISC 487</td>
<td>E-COMMERCE AND E-COMMERCE SYSTEM DESIGN</td>
<td></td>
</tr>
<tr>
<td>MISC 498</td>
<td>SEMINAR</td>
<td></td>
</tr>
<tr>
<td>OPSM 425</td>
<td>SERVICE AND OPERATION ANALYSIS</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 20

**Data Analytics Minor**

This minor is offered to all students interested in the science of rational decision-making through the study, design and integration of complex situations and systems. This discipline focuses on managerial planning, mathematical modeling and the use of computer technology to help decision-makers choose from among a set of alternatives in light of all possible consequences. This minor is recommended for students who wish to possess problem-solving skills that can be used to make and implement decisions as efficiently and effectively as possible.

Note: offered to all students not pursuing a Bachelor of Arts in Business Administration (BAB) degree

**Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 346</td>
<td>ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
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</table>

**Required Courses—at least three of the following.**

<table>
<thead>
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</thead>
<tbody>
<tr>
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<td>INTRODUCTION TO BUSINESS ANALYTICS</td>
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<tr>
<td>DSCI 450</td>
<td>DATA VISUALIZATION</td>
<td></td>
</tr>
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</table>

**Total Credits** 20

**Entrepreneurship, Bachelor of Arts in Business Administration (BAB)**

The Entrepreneurship major will teach students what it takes to be an entrepreneur. This will include skills such as telling a great story about their idea or business, giving a great pitch, defining the value proposition of the business, creative ways to finance through startup, and even how to refine and perfect their business model and create a business plan that works.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for this Entrepreneurship major may not be counted towards the Business Administration Core, the Finance, Marketing, Management: General Business Option, Human Resource Management Option or the Operations Management Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

**Lower Division Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 251</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td>5</td>
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<tr>
<td>ACCT 252</td>
<td>PRINCIPLES OF MANAGEMENT ACCOUNTING</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 261</td>
<td>BUSINESS LAW</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
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<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 201</td>
<td>COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION</td>
<td>5</td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 161</td>
<td>CALCULUS I</td>
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</tr>
<tr>
<td>or MATH 200</td>
<td>FINITE MATHEMATICS</td>
<td></td>
</tr>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper Division Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 346</td>
<td>ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>FINC 335</td>
<td>FINANCIAL MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 423</td>
<td>BUSINESS AND SOCIETY</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 490</td>
<td>DEPARTMENT SENIOR CAPSTONE</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 310</td>
<td>PRINCIPLES OF MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>OPSM 330</td>
<td>OPERATIONS MANAGEMENT</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 311</td>
<td>ENTREPRENEURIAL BEHAVIOR AND THINKING</td>
<td>4</td>
</tr>
<tr>
<td>ENTP 411</td>
<td>FINDING AND EVALUATING OPPORTUNITIES</td>
<td>4</td>
</tr>
<tr>
<td>ENTP 412</td>
<td>BUSINESS MODEL DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>ENTP 438</td>
<td>ENTREPRENEURIAL AND SMALL BUSINESS FINANCE</td>
<td>4</td>
</tr>
<tr>
<td>ENTP 489</td>
<td>THE BUSINESS PLAN LABORATORY</td>
<td>4</td>
</tr>
</tbody>
</table>
The Finance major is for those students with career objectives in the financial management of business firms, banking and other financial institutions, insurance and the securities industries. The course of study analyzes the investment needs, financial requirements and financial performance of business firms. It also is concerned with the role played by financial institutions and security markets in meeting the vital financial needs of business firms, investors and consumers.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the Finance Major beyond the required Business Administration Core are not counted double toward the Entrepreneurship, International Business, Marketing, Human Resource Management Option, Operations Management Option or General Business Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

Entrepreneurship Minor

The minor in entrepreneurship is designed to help students who have an idea, a product, an innovation, unique expertise, or a solution to a real world problem that they want to develop into a new business. Students will learn about the core challenges facing entrepreneurs and the ways that entrepreneurs think about and approach these challenges. Courses develop competencies such as how to discover and evaluate new business opportunities, how to pitch and build support for your new business, how to finance the new venture, how to develop a strong business model, and how to craft a powerful business plan.

Student Learning Outcomes—Students will

- learn to recognize and assess opportunities;
- learn to convey a compelling vision to lenders, investors, customers, and other relevant parties;
- learn how to create value from their ideas;
- learn how to recognize, mitigate and manage risks associated with their business;
- learn how to evaluate their self-efficacy as it relates to an entrepreneurial business;
- learn how to assess potential startup financing and acquire the necessary financing to operate their business;
- learn how to build and use networks to develop and grow their business.

Each course throughout the program will contribute to the development of an Entrepreneurship portfolio designed to include the skills and competencies necessary to start, operate and grow a business.

Required Elective—choose approved, related electives in consultation with your faculty advisor.

Total Credits 89-90

Finance Major, Bachelor of Arts in Business Administration (BAB)

The Finance major is for those students with career objectives in the financial management of business firms, banking and other financial institutions, insurance and the securities industries. The course of study analyzes the investment needs, financial requirements and financial performance of business firms. It also is concerned with the role played by financial institutions and security markets in meeting the vital financial needs of business firms, investors and consumers.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the Finance Major beyond the required Business Administration Core are not counted double toward the Entrepreneurship, International Business, Marketing, Human Resource Management Option, Operations Management Option or General Business Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

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<tbody>
<tr>
<td>ACCT 251</td>
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<tr>
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<tr>
<td>ACCT 261</td>
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<tr>
<td>DSCI 245</td>
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<tr>
<td>ECON 200</td>
</tr>
<tr>
<td>ECON 201</td>
</tr>
<tr>
<td>ENGL 201</td>
</tr>
<tr>
<td>MATH 142</td>
</tr>
<tr>
<td>or MATH 161</td>
</tr>
<tr>
<td>or MATH 200</td>
</tr>
<tr>
<td>MISC 211</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper Division Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 346</td>
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<tr>
<td>FINC 335</td>
</tr>
<tr>
<td>MGMT 326</td>
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<tr>
<td>MGMT 423</td>
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<tr>
<td>MGMT 490</td>
</tr>
<tr>
<td>MKTG 310</td>
</tr>
<tr>
<td>OPSM 330</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Required Courses</th>
</tr>
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<tbody>
<tr>
<td>ECON 444</td>
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<tr>
<td>FINC 431</td>
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<td>FINC 435</td>
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<tr>
<td>FINC 436</td>
</tr>
<tr>
<td>FINC 474</td>
</tr>
</tbody>
</table>

Electives—choose approved, related electives in consultation with your faculty advisor.

Total Credits 96-97
For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- understand and be able to apply the time value of money;
- be able to conduct long-term financial analysis in real-world domestic and international applications;
- be able to integrate the cost of capital (derived from risk, capital structure and market factors) into financial analyses;
- be able to conduct short-term financial analysis including cash-flow projections;
- understand how modern securities including derivatives can be used to achieve investment and risk-management objectives.

**Information Security Management Minor**

The minor in Information Security Management is offered to all business and non-business students at EWU, except those who are pursuing a major/minor in MIS or a major/minor in CS. Students develop a solid foundation to handle information security and privacy competently in our modern society.

**Requirements**

**IT Literacy**

- MISC 211 INFORMATION TECHNOLOGY IN BUSINESS 4

**IT Technical Background**

- MISC 372 DATA COMMUNICATION AND NETWORK FUNDAMENTALS 4
- MISC 373 BUSINESS DATABASE APPLICATIONS 4

**Required Core**

- MISC 486 INFORMATION SECURITY MANAGEMENT 4

Note 1: IT literacy and technical background courses may be obtained through different courses or experiences. Please consult with the program coordinator or the department chair. Note 2: Management Information Systems major/minor and Computer Science major/minor may not pursue this minor due to too many possible double counted courses.

**Total Credits** 16

**Student Learning Outcomes—Students will**

- identify information security management issues;
- assess the effectiveness and efficiency of information security management;
- advocate the impact and consequence of potential information security management issues in both professional and non-professional language.

**International Business Major, Bachelor of Arts in Business Administration (BAB)**

The International Business major is for students with career objectives in the management of global business organizations. The course of study provides education in the theory and principles of international economics, management, finance, human resource management and marketing. It is concerned with the role of global business in both the host country as well as the world economy.

Student must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the International Business Major beyond the required Business Administration Core are not counted double toward the Entrepreneurship, Finance, Marketing, Human Resource Management Option, Operations Management Option or General Business Option majors.

**Note:** a third quarter college level oral, written and reading competency in a modern language with a grade ≥2.0 is required for this major.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs and as requirements for the degree; however, these courses are not counted twice towards the total of 180 credits required for graduation.

**Required Business Administration Core**

**Lower Division**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>ACCT 252</td>
<td>PRINCIPLES OF MANAGEMENT ACCOUNTING</td>
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<tr>
<td>ACCT 261</td>
<td>BUSINESS LAW</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 201</td>
<td>COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION</td>
<td>5</td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 161</td>
<td>CALCULUS I</td>
<td></td>
</tr>
<tr>
<td>or MATH 200</td>
<td>FINITE MATHEMATICS</td>
<td></td>
</tr>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI 346</td>
<td>ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>FINC 335</td>
<td>FINANCIAL MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 326</td>
<td>ORGANIZATION THEORY AND BEHAVIOR</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 423</td>
<td>BUSINESS AND SOCIETY</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 490</td>
<td>DEPARTMENT SENIOR CAPSTONE</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 310</td>
<td>PRINCIPLES OF MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>OPSM 330</td>
<td>OPERATIONS MANAGEMENT</td>
<td>4</td>
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**Required International Business Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 498</td>
<td>SEMINAR</td>
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<tr>
<td>ECON 470</td>
<td>INTERNATIONAL ECONOMICS</td>
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</tr>
<tr>
<td>FINC 474</td>
<td>INTERNATIONAL FINANCE MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 470</td>
<td>INTERNATIONAL BUSINESS MANAGEMENT</td>
<td>4</td>
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<tr>
<td>MGMT 471</td>
<td>MULTINATIONAL PEOPLE MANAGEMENT</td>
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<tr>
<td>MKTG 472</td>
<td>GLOBAL MARKETING MANAGEMENT</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Elective—choose an approved, related elective in consultation with your faculty advisor.**

**Total Credits** 95-100

For information on General Education, see Undergraduate Degree (p. 39).
Student Learning Outcomes—students will:

- understand how differences in customs and cultures affect businesses operating in the international arena;
- understand the basic differences between the risks faced by domestic and multinational firms including transaction exposure, operating exposure and accounting exposure;
- have a basic knowledge of how to manage these risks;
- have an appreciation for the foreign exchange markets including their participants, size, functions and impacts on international business;
- gain an appreciation of how social and political factors influence global business.

International Business Minor

This minor is offered for students in the Bachelor of Arts in Business Administration (BAB) degree program. The minor in International Business will enhance the business educational experience by providing an in-depth international dimension that complements any major area of study in business. This minor is recommended for students who wish to work in organizations that are engaged in global business activities and want to be prepared to meet the challenges of ever-increasing global interdependence.

Note: this minor is only available for students who are pursuing a Bachelor of Arts in Business Administration (BAB) degree.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IBUS 470</td>
<td>INTERNATIONAL BUSINESS MANAGEMENT</td>
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<td>IBUS 471</td>
<td>MULTINATIONAL PEOPLE MANAGEMENT</td>
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<td>IBUS 472</td>
<td>GLOBAL MARKETING MANAGEMENT</td>
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<tr>
<td>IBUS 474</td>
<td>INTERNATIONAL FINANCIAL MANAGEMENT</td>
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<tr>
<td><strong>Total Credits</strong></td>
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Management Information Systems Major, Bachelor of Arts in Business Administration (BAB)

The major in Management Information Systems is oriented toward developing specialists who can design, implement and manage business information systems. Upon completion, the student should be able to understand both the technical aspects of these systems and the complexities of their management. Depending upon the electives chosen, the student may prepare for entry-level positions in either the technical areas of data processing or in staff support roles in the various functional areas of business.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

Required Business Administration Core

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>ACCT 251</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 261</td>
<td>BUSINESS LAW</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
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<td>MATH 142</td>
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<td>FINITE MATHEMATICS</td>
<td></td>
</tr>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td>4</td>
</tr>
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</table>

Upper Division Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>DSCI 346</td>
<td>ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
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<td>FINC 335</td>
<td>FINANCIAL MANAGEMENT</td>
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<td>MGMT 326</td>
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</table>

Electives—select approved, related electives in consultation with your faculty advisor.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MISC 371</td>
<td>BUSINESS APPLICATIONS PROGRAM DESIGN</td>
<td>4</td>
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<tr>
<td>MISC 372</td>
<td>DATA COMMUNICATION AND NETWORK FUNDAMENTALS</td>
<td>4</td>
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<td>MISC 373</td>
<td>BUSINESS DATABASE APPLICATIONS</td>
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<tr>
<td>MISC 481</td>
<td>SYSTEMS ANALYSIS AND DESIGN</td>
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<tr>
<td>MISC 482</td>
<td>SYSTEMS PROJECT AND PROJECT MANAGEMENT</td>
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</tbody>
</table>

Total Credits 97

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- acquire MIS technical skills, including programming principles, database principles, networking and data communications;
- demonstrate problem-solving abilities by applying MIS technical skills, including business application program design, business database design;
- demonstrate MIS project development skills through system analysis and design and demonstrate MIS/IT project management skills and team skills.

Management Information Systems Minor

The minor in Management Information Systems (MIS) provides the conceptual foundation and skill preparation for working in an Information Technology (IT) intensive environment characterized by electronic communication channels along with an in-depth knowledge of data processing and management.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>MISC 373</td>
<td>BUSINESS DATABASE APPLICATIONS</td>
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</tr>
</tbody>
</table>
Management with General Business Option, Bachelor of Arts in Business Administration (BAB)

Students interested in learning about management should consider the Management major. Within this major students can follow three options: General Business Option, Human Resource Management Option and Operations Management Option.

Students interested in learning the basic theory and principles of business that are crucial to effective organizational performance and communication across business disciplines should consider the General Business Option. The student has the opportunity to study management as applied to specific areas, including marketing, finance, operations management and management information systems.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the General Business Option beyond the required Business Administration Core are not counted double toward the Finance, Marketing, Operations Management Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

Required Business Administration Core

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<tr>
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<td>OPSM 330</td>
<td>OPERATIONS MANAGEMENT</td>
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<td>BUED 302</td>
<td>BUSINESS COMMUNICATION</td>
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<td>or CMST 351</td>
<td>COMMUNICATIVE REASONING</td>
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<tr>
<td>or TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
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</tbody>
</table>

Electives—select approved, related electives in consultation with your faculty advisor. Total Credits 93-94

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• know the vocabulary of the business disciplines;
• know the purpose and responsibilities of each business function: accounting, finance, human resource management, operations and marketing;
• explain key business concepts in each of the business functions, such as the 4 P’s of marketing, motivation theories, time-value of money and financial statements;
• gather, prepare and analyze information necessary to make rational business decisions;
• demonstrate judgment, communication skill and quantitative techniques necessary to solve typical business problems.

Management with Human Resource Management Option, Bachelor of Arts in Business Administration (BAB)

Students interested in learning about management should consider the Management major. Within this major students can follow three options: General Business Option, Human Resource Management Option and Operations Management Option.

The Human Resource Management option focuses on tools, techniques and methods used to maximize satisfaction for both the employer and employee. This option applies human resource management and general management theories to the actual management of the human resources of the organization. Topics covered include equal opportunities, safety and health, compensation, training and development, performance appraisal, motivation and job satisfaction and retirement.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the Human Resource Management Option beyond the required Business Administration Core are not counted double toward the Entrepreneurship, Finance, Marketing, Operations Management Option or General Business Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.
Required Business Administration Core

**Lower Division Courses**

- ACCT 251 PRINCIPLES OF FINANCIAL ACCOUNTING 5
- ACCT 252 PRINCIPLES OF MANAGEMENT ACCOUNTING 4
- ACCT 261 BUSINESS LAW 4
- DSCI 245 DATA ANALYSIS FOR BUSINESS 4
- ECON 200 INTRODUCTION TO MICROECONOMICS 5
- ECON 201 INTRODUCTION TO MACROECONOMICS 5
- ENGL 201 COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION 5
- MATH 142 PRECALCULUS II 5
- or MATH 161 CALCULUS I 5
- or MATH 200 FINITE MATHEMATICS 4
- HUMR 211 INFORMATION TECHNOLOGY IN BUSINESS 4

**Upper Division Courses**

- DSCI 346 ADVANCED DATA ANALYSIS FOR BUSINESS 4
- FINC 335 FINANCIAL MANAGEMENT 4
- MGMT 326 ORGANIZATION THEORY AND BEHAVIOR 4
- MGMT 423 BUSINESS AND SOCIETY 4
- MGMT 490 DEPARTMENT SENIOR CAPSTONE 4
- MKTG 310 PRINCIPLES OF MARKETING 4
- OPSM 330 OPERATIONS MANAGEMENT 4

**Required Human Resources Management Courses**

- HUMR 328 HUMAN RESOURCE MANAGEMENT 4
- HUMR 427 COMPENSATION ADMINISTRATION 4
- HUMR 429 CURRENT ISSUES IN HUMAN RESOURCE MANAGEMENT 4
- MGMT 471 MULTINATIONAL PEOPLE MANAGEMENT 4
- or IBUS 471 MULTINATIONAL PEOPLE MANAGEMENT 4

**Electives**—select approved, related electives in consultation with your 8-10 faculty advisor.

**Total Credits** 93-95

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- be able to understand and deal with the influence of the major environmental factors that affect HRM activities;
- possess the knowledge and skills needed to effectively manage the staffing function;
- possess the knowledge and skills needed to effectively manage the compensation function;
- possess the knowledge and skills needed to conduct effective training and development activities;
- possess the knowledge and skills needed to effectively manage labor relations and employee safety and health.

Management with Operations Management Option, Bachelor of Arts in Business Administration (BAB)

Students interested in learning about management should consider the Management major. Within this major students can follow three options:


  The Operations Management Option is for students interested in the daily management activities of an organization. It prepares students with techniques and objectives to help service oriented and/or manufacturing oriented organizations achieve their objectives. Topics that are covered include productivity measures, demand forecasting, location analysis, layout analysis, process choice, scheduling, quality management and supply chain management.

  Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

  Courses taken for the Operations Management Option beyond the required Business Administration Core are not counted double toward the Entrepreneurship, Finance, Marketing, Human Resource Management Option, and General Business Option majors.

  Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

**Required Business Administration Core**

**Lower Division Courses**

- ACCT 251 PRINCIPLES OF FINANCIAL ACCOUNTING 5
- ACCT 252 PRINCIPLES OF MANAGEMENT ACCOUNTING 4
- ACCT 261 BUSINESS LAW 4
- DSCI 245 DATA ANALYSIS FOR BUSINESS 4
- ECON 200 INTRODUCTION TO MICROECONOMICS 5
- ECON 201 INTRODUCTION TO MACROECONOMICS 5
- ENGL 201 COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION 5
- MATH 142 PRECALCULUS II 5
- or MATH 161 CALCULUS I 5
- or MATH 200 FINITE MATHEMATICS 4
- HUMR 211 INFORMATION TECHNOLOGY IN BUSINESS 4

**Upper Division Courses**

- DSCI 346 ADVANCED DATA ANALYSIS FOR BUSINESS 4
- FINC 335 FINANCIAL MANAGEMENT 4
- MGMT 326 ORGANIZATION THEORY AND BEHAVIOR 4
- MGMT 423 BUSINESS AND SOCIETY 4
- MGMT 490 DEPARTMENT SENIOR CAPSTONE 4
- MKTG 310 PRINCIPLES OF MARKETING 4
- OPSM 330 OPERATIONS MANAGEMENT 4

**Required Operations Management Courses**

- DSCI 446 BUSINESS FORECASTING 4
- OPSM 425 SERVICE AND OPERATION ANALYSIS 4
- OPSM 428 GLOBAL SUPPLY CHAIN MANAGEMENT 4
- OPSM 441 QUALITY MANAGEMENT 4

**Electives**—select approved, related electives in consultation with your 8-10 faculty advisor.

**Total Credits** 93-95
Marketing Major, Bachelor of Arts in Business Administration (BAB)

The Marketing curriculum prepares students for a wide variety of occupational possibilities. Marketers are involved with such activities as product planning, pricing decisions, advertising, sales management and marketing research. Marketing practitioners act as the connecting link between the firm and its external environment; they assist management in adapting the firm to an ever-changing society.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Courses taken for the Marketing Major beyond the required Business Administration Core are not counted double toward the Entrepreneurship, Finance, Human Resource Management Option, Operations Management Option or General Business Option majors.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

Required Business Administration Core

<table>
<thead>
<tr>
<th>Lower Division</th>
<th>Upper Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 251 PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td>DSCI 346 ADVANCED DATA ANALYSIS FOR BUSINESS</td>
</tr>
<tr>
<td>ACCT 252 PRINCIPLES OF MANAGEMENT ACCOUNTING</td>
<td>FINC 335 FINANCIAL MANAGEMENT</td>
</tr>
<tr>
<td>ACCT 261 BUSINESS LAW</td>
<td>MGMT 326 ORGANIZATION THEORY AND BEHAVIOR</td>
</tr>
<tr>
<td>DSCI 245 DATA ANALYSIS FOR BUSINESS</td>
<td>MGMT 423 BUSINESS AND SOCIETY</td>
</tr>
<tr>
<td>ECON 200 INTRODUCTION TO MICROECONOMICS</td>
<td>MGMT 490 DEPARTMENT SENIOR CAPSTONE</td>
</tr>
<tr>
<td>ECON 201 INTRODUCTION TO MACROECONOMICS</td>
<td>MARKETING ANALYSIS</td>
</tr>
<tr>
<td>ENGL 201 COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION</td>
<td>MISC 211 INFORMATION TECHNOLOGY IN BUSINESS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Total Credits</th>
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<tbody>
<tr>
<td>MKTG 400 BUYER BEHAVIOR</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 411 MARKETING RESEARCH</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 412 MARKETING MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 417 MARKETING ANALYSIS</td>
<td>4</td>
</tr>
<tr>
<td>Electives—choose approved, related electives in consultation with your faculty advisor</td>
<td>8-10</td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Professional Accounting Major, Bachelor of Arts in Business Administration (BAB)

The Professional Accounting major is designed to rigorously prepare students for careers in public accounting (CPA) firms, industry, government and not-for-profit organizations. Several professional certificates are available to professional accounting graduates who pass competitive examinations and meet certain other requirements. For example, the Certified Public Accountant certificate, Certified Management Accountant license or Certified Internal Auditor certificate provide professional recognition to the accountants who successfully complete a comprehensive professional examination and meet an experience requirement.

Requirements to sit for the Uniform Certified Public Accountant Examination vary from state to state. Experience requirements for the license also vary from state to state. Therefore, students must obtain current information from the Board of Accountancy within the state from which they seek licensure.

Students must be formally admitted to the Business Undergraduate Program or officially declared as a minor before enrolling in business classes in the major. See Business Administration Course Enrollment Policies for more information.

Note: ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill GECRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.
## Required Business Administration Core

### Lower Division Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACCT 251</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td>5</td>
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<tr>
<td>ACCT 252</td>
<td>PRINCIPLES OF MANAGEMENT ACCOUNTING</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 261</td>
<td>BUSINESS LAW</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 201</td>
<td>COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION</td>
<td>5</td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 161</td>
<td>CALCULUS I</td>
<td></td>
</tr>
<tr>
<td>or MATH 200</td>
<td>FINITE MATHEMATICS</td>
<td></td>
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### Upper Division Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DSCI 346</td>
<td>ADVANCED DATA ANALYSIS FOR BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>FINC 335</td>
<td>FINANCIAL MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 326</td>
<td>ORGANIZATION THEORY AND BEHAVIOR</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 423</td>
<td>BUSINESS AND SOCIETY</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 490</td>
<td>DEPARTMENT SENIOR CAPSTONE</td>
<td>4</td>
</tr>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 310</td>
<td>PRINCIPLES OF MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>OPSM 330</td>
<td>OPERATIONS MANAGEMENT</td>
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### Required Professional Accounting Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ACCT 351</td>
<td>INTERMEDIATE ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 352</td>
<td>INTERMEDIATE ACCOUNTING II</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 353</td>
<td>INTERMEDIATE ACCOUNTING III</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 356</td>
<td>COST ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 357</td>
<td>COST ACCOUNTING II</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 359</td>
<td>ACCOUNTING SYSTEMS</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 450</td>
<td>AUDITING</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 451</td>
<td>ADVANCED AUDITING</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 452</td>
<td>CONTEMPORARY ACCOUNTING THEORY</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 454</td>
<td>FEDERAL INCOME TAX I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 455</td>
<td>FEDERAL INCOME TAX II</td>
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</table>

### Electives—select one course from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 358</td>
<td>ACCOUNTING FOR NON-PROFIT ENTITIES</td>
<td></td>
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<tr>
<td>ACCT 422</td>
<td>ADVANCED BUSINESS LAW</td>
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</tr>
<tr>
<td>ACCT 495</td>
<td>PROFESSIONAL INTERNSHIP</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 117

For information on General Education, see Undergraduate Degree (p. 39).

### Student Learning Outcomes—students will

- identify ethical issues and apply personal values and professional codes of conduct to resolve ethical issues, including social responsibility and environmental reporting issues;
- develop awareness of diverse perspectives and cultures and their impact on the communication of accounting information in the international arena;
- generate, interpret and communicate accounting information for use in decision making.
Business and Marketing Education

Taryn Fletcher (tfletcher@ewu.edu), Director of Business and Marketing Education, Plan 2 CTE Certification, and MOS Certification program page (https://www.ewu.edu/cbpa/programs/business-and-marketing-education)
352 Riverpoint
509.828.1251

Christi Harter (charter1@ewu.edu), Plan 2 Coordinator, Online, 509.475.0059
Leah Silvieus (lsilvieus@ewu.edu), MOS Coordinator, Online, 509.499.0723

Instructors:
Jeffrey Adams
Ariel Dykstra
Susan Sears
Leah Silvieus
Adam Smith
Venetia Willis-Holbrook

Undergraduate Degrees

Bachelor of Arts in Education (BAE)

- Business and Marketing Education/Secondary Major or Add-on Endorsement (p. 190)

Undergraduate Programs

The Business and Marketing Education (BME) student will become fully Career and Technical Education (CTE) certified to teach any business or marketing course in the state of Washington grades 5–12.

Business and marketing courses offered in high school, junior high, middle school, and skills centers prepare students to think, communicate, and problem solve through real-world applications. Business and marketing teachers educate students to become thoughtful consumers, achieve success in the workplace, and value life-long learning.

A Bachelor of Arts in Education with a Business and Marketing Education (BME) major provides teachers with practical business and/or marketing experience to share their knowledge and expertise in a secondary education classroom. BME Program completers receive a Washington State teaching license in secondary education with a CTE certification in business and marketing allowing them to teach any business or marketing subject offered in grades 5–12. Please visit the Department of Education for more information on secondary education requirements.

The BME degree or BME Add-on with a CTE certificate allows program completers to teach any of the 50 plus business or marketing courses a school might offer. The degree also certifies completers to coordinate work-site learning educational opportunities at a qualified work-site outside the classroom, linking high school students’ work experiences with classroom learning; and the degree certifies you to instruct the career choices course, facilitating career development, job retention, and resource management. The BME major is offered in conjunction with the Department of Education. The College of Business and Public Administration provides the required business-related courses in business administration, computer applications, accounting, and Career and Technical Education. The Department of Education provides courses in professional education and advising toward teacher certification within the State of Washington.

All CTE, BME, and business administration courses are offered online. Tuition for online courses differs from on-campus courses; please contact Student Financial Services for current tuition rates.

Grade Requirements for Graduation
1. a minimum grade ≥2.0 in each course required for the major
2. formal admission to the BAE program.
3. a minimum accumulative GPA ≥2.5.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Course Repeat Policy
The Undergraduate Business and Marketing Education Program's course repeat policy limits students to three graded attempts for each requirement for their Business and Marketing Education (BME) major, including all requirements listed and courses required for the major. If a requirement for the major is not successfully completed with a minimum grade ≥2.0 on the third graded attempt, the student will be dropped from the program.

For fulfillment of each course requirement, the BME program will consider the first three times a student completes the course; further attempts of the course will not be accepted. In accordance with EWU’s repeat policy, only the most recent of the (first) three completions will be accepted. Completion is defined as receiving a final grade in the course.

A student who has been denied admission to the BME program or who has been dropped from the program based on application of this repeat policy may seek admission into the program or continuation through petition to the Dean of the College of Business and Public Administration. The policy applies to all BME program core, major requirements, and includes graded attempts of these requirements at colleges and universities other than EWU. For the specific requirements, refer to the General Undergraduate Catalog or the Business Advising website.

It is anticipated that enforcement of the policy will not be handled automatically by the student information system but will require review of transcripts at the time of admission to the business program and/or review of transcript/graduation forms just prior to graduation. Information as to the policy and the student’s obligation to understand and follow it will be included on program advising information and admission forms and in EWU catalog information.

When a student declares BME as a degree program, the student will be informed of the BME repeat policy by the advisor. If a student applying for formal admission to the business program has completed a business program requirement a third time with a grade <2.0, the student will be informed by the business advisor that the student is not admissible and that further attempts of the course will not be considered. If a student has been formally admitted to the business program and then completes a business program requirement a third time with a grade <2.0, the student will be dropped from the program and informed by the advisor that further attempts of the course will not be considered.
Business and Marketing Education/Secondary Major or Add-on Endorsement, Bachelor of Arts in Education (BAE)

For students/teachers who currently possess a Washington State Teaching Certificate.

The Business and Marketing Education (BME) add-on satisfies the endorsement for grades 5–12.

Notes:

1. completion of university competencies in computer literacy and writing and university proficiency in math required prior to taking lower division required courses.
2. completion of university proficiency in writing required prior to taking upper division required courses.
3. the above major takes more than 12 quarters at an average of 15 credits per quarter.
4. in addition, career and technical education certification within business and marketing education includes a minimum of 2,000 hours of paid related work experience in business.
5. a required Career and Technical Education (CTE) certification within Business and Marketing Education (BME) requires a minimum of 2,000 hours of paid related work experience in business.
6. student teaching in business and marketing is required as well as the passage of the Washington Educator Skills Test Endorsement (WEST-END) State exam in business and marketing.

Required Secondary Education Core

30–hour multicultural education field requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 200 &amp; EDUC 309</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)</td>
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<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
<td>4</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
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<td>EDUC 426</td>
<td>SECONDARY STUDENT TEACHING 7-12</td>
<td>15</td>
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<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
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<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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Required Business and Marketing Education Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACCT 251</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
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<td>ACCT 261</td>
<td>BUSINESS LAW</td>
<td>4</td>
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<td>ACCT 351</td>
<td>INTERMEDIATE ACCOUNTING I</td>
<td>4</td>
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<tr>
<td>BUED 302</td>
<td>BUSINESS COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td>BUED 376</td>
<td>MULTIMEDIA DOCUMENT DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>BUED 470</td>
<td>INTRODUCTION TO COMPUTER SCIENCE FOR TEACHERS</td>
<td>4</td>
</tr>
<tr>
<td>BUED 475</td>
<td>METHODS OF TEACHING BASIC BUSINESS, ACCOUNTING, BUSINESS ENGLISH AND MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>BUED 476</td>
<td>METHODS OF TEACHING KEYBOARDING AND MICROCOMPUTER APPLICATIONS</td>
<td>4</td>
</tr>
<tr>
<td>CTED 301</td>
<td>PHILOSOPHY OF CAREER AND TECHNICAL EDUCATION</td>
<td>4</td>
</tr>
<tr>
<td>CTED 474</td>
<td>ADMINISTRATION OF WORK-SITE EDUCATION</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
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<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
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<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
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<td>HUMR 328</td>
<td>HUMAN RESOURCE MANAGEMENT</td>
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<td>MGMT 422</td>
<td>ENTREPRENEURSHIP</td>
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<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
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<tr>
<td>MKTG 310</td>
<td>PRINCIPLES OF MARKETING</td>
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</tbody>
</table>

Total Credits: 115

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- integrate the state’s Common Core Competencies and 21st century skills in the program implementation and assessment and, in
- identify the diverse needs of students and implement programs and strategies that promote student competency and success;
- create and sustain safe learning environment that prepare diverse students for the workplace, advanced training, and continuing education;
- model personal and professional attributes and leadership skills that reflect productive life and work roles as well as implement and maintain collaborative partnerships with students, colleagues, community, business, industry, and families that maximize resources and promote student self-sufficiency;
- demonstrate competencies in business and marketing instructional methodologies; information technology clusters; information systems management; information processing applications; technical communications; entrepreneurship; marketing; business management; accounting; economics and finance; international business; and business law;
- demonstrate teaching competence in career development, work-site coordination, and integration of leadership development into the curriculum and management.

Career and Technical Education (CTE) Certificate

Plan 2/Business and Industry Route teacher certification is a short program for teacher candidates who possess 6,000 paid industry work experience in a specific area. The certificate allows teacher candidates to teach only in that specific area.

The Plan 2 requirements are as follows:

- Document three years (6000 hours) of paid occupational experience in the specific CTE subcategory/specialty area for which certification is sought. One year (2000 hours) must be within the past six years. If any of the 2000 hours are more than six years old, 300 hours of the experience must be within the past two years;
• complete EWUs approved Plan 2/Business and Industry Route program.

When you complete the Plan 2 program, you will have a Washington State residency certificate to teach in grades 7–12 ONLY in your specialty area of certification. You will also be certified to teach work-site learning and career choices. Visit the OSPI (http://k12.wa.us/certification/CTE/Initial.aspx) website for further details.

Classes are offered only as online courses. Some courses are offered as clock hours for students who possess a Washington State Teaching certificate; however, clock hours cannot be transferred to credit at any time.

Note: courses also available as clock hours for individuals who possess a Washington State Teaching Certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CTED 300</td>
<td>INTRODUCTION TO CAREER AND TECHNICAL EDUCATION</td>
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<td>CTED 301</td>
<td>PHILOSOPHY OF CAREER AND TECHNICAL EDUCATION</td>
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<tr>
<td>CTED 309</td>
<td>CTE CLASSROOM MANAGEMENT</td>
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</tr>
<tr>
<td>CTED 341</td>
<td>CTE SECONDARY STRATEGIES</td>
<td>4</td>
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<tr>
<td>CTED 474</td>
<td>ADMINISTRATION OF WORK-SITE EDUCATION</td>
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<td>CTED 485</td>
<td>MANAGEMENT OF CTE PRACTICUM</td>
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<tr>
<td>CTED 492</td>
<td>CTE PROFESSIONAL PORTFOLIO</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 25
Economics

David Bunting, Chair

department page (https://www.ewu.edu/cbpa/programs/economics)
311 Patterson Hall
509.359.4748

Faculty

Maggie apRoberts-Warren, Justin R. Bucciferro, David C. Bunting, Kelley L. Cullen, Nathaniel D. Greene, Roberta J. Greene, Mark Holmgren, German M. Izon, Thomas M. Karier, Nicholas W. Larsen, Nathan S. Skuza.

Undergraduate Degrees

Bachelor of Arts (BA)

• Economics (p. 193)

• Economics with Mathematics Option (p. 193)

Bachelor of Science (BS)

• Economics (p. 193)

• Economics Computing Option (p. 192)

Undergraduate Minors

• Economics (p. 194)

• General Education Economics (p. 194)

Undergraduate Programs

The Economics Program offers flexible degree options that can be tailored for a variety of career choices. A Bachelor of Arts (BA) major provides valuable training for students interested in general management positions, public sector careers or attending law school or graduate school in the social sciences with electives in poverty and discrimination, public finance and international economics. A Bachelor of Arts with a Mathematics Option, the Bachelor of Science Option, or the Bachelor of Science with Computing Option provide strong quantitative and analytical training for those considering a career as an analyst or attending graduate school in economics or business with courses in econometrics and mathematical economics. An Economics Minor enhances any EWU major, especially for those interested in social sciences, business or public affairs, with courses in money and banking, industrial organization and political economy. The department also supports health related fields with courses in health economics and risk and insurance.

Economics courses appeal to students who are analytical and problem solvers and interested in social issues or the operation of private organizations. Economics majors have found careers in a wide variety of private and public sector occupations as bankers, union officials, market analysts, managers, stockbrokers, insurance executives, researchers, and legislative staffers. They are employed by port districts, export/import firms, public utilities, consulting firms, railroads, airlines, software firms, aerospace firms and numerous local, state and federal government agencies. Others have gone on to graduate studies at Washington State University, University of Washington, Oregon, Yale, and Purdue; or received law, MBA, MPA, or International Studies degrees.

Prospective majors or those considering a minor or second major should consult with a departmental advisor to design a program consistent with their goals.

General Admissions Requirements for Economics

Upper-division courses in economics assume students have satisfied the university requirement for competency in basic mathematics and English. All programs in the major require some university level mathematics, statistics and computer use. Students are strongly urged to consult with a department advisor early in their academic careers to plan an interesting and efficient program in economics.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Graduate Certificate

• Regional Economic and Public Policy Analysis (p. 194)

The Graduate Certificate in Regional Economic Policy Analysis offers the opportunity to expand and enhance quantitative skills to analyze policy issues such as the regional economic impact of proposed housing projects, plant closures, or social program expansions. The focus of the certificate is on the development of analytical methods of economics and statistics; identification of appropriate statistical information for regional analysis; application of tools, methodologies and techniques of policy analysis; and the use of analytical tools and methods such as GIS, input-output analysis, regression analysis and computer modeling.

The REPA Certificate is a 28 credit curriculum that can be a part of a graduate program at EWU or a stand-alone certificate. All students must complete the graduate admissions requirements.

Students in the certificate program should consult with their appropriate advisor: the Planning and Public Administration Department Chair or the Economics Department Chair.

Economics Computing Option, Bachelor of Science (BS)

Note: in order to graduate with a BS in Economics, students must complete ECON 304 and ECON 305 with a grade ≥2.0 and the cumulative GPA for all courses completed towards the major must be ≥2.0.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 304</td>
<td>INTERMEDIATE MICROECONOMIC THEORY</td>
<td>5</td>
</tr>
<tr>
<td>ECON 305</td>
<td>INTERMEDIATE MACROECONOMIC THEORY</td>
<td>5</td>
</tr>
<tr>
<td>ECON 337</td>
<td>ECONOMETRICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 430</td>
<td>MATHEMATICAL ECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 438</td>
<td>ECONOMETRICS II</td>
<td>5</td>
</tr>
<tr>
<td>ECON 490</td>
<td>ECONOMICS SENIOR CAPSTONE</td>
<td>5</td>
</tr>
<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
<td>5</td>
</tr>
</tbody>
</table>

Math Supporting

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 385</td>
<td>PROBABILITY AND STATISTICAL INFERENC</td>
<td></td>
</tr>
</tbody>
</table>

Computing Related Courses

CSCD 110  INTRODUCTION TO PROGRAMMING  5
CSCD 255  C PROGRAMMING FOR ENGINEERS  5
CSCD 327  RELATIONAL DATABASE SYSTEMS  4
MENG 201  MATLAB  4
or CSCD 409  SCIENTIFIC PROGRAMMING  4

Total Credits  72-73

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• use supply and demand modeling to predict and/or explain some economic event;
• use quantitative skills to analyze economic data;
• understand the use of fiscal and monetary policies in addressing contemporary macroeconomic issues;
• understand and apply the Cost/Benefit Principle to a current socio-economic issue.

Economics Major with Mathematics Option, Bachelor of Arts (BA)

Note: in order to graduate with a BA in Economics, students must complete ECON 304 and ECON 305 with a minimum grade ≥2.0 and the cumulative GPA for all courses completed towards the major must be ≥2.0.

Required Courses

ECON 200  INTRODUCTION TO MICROECONOMICS  5
ECON 201  INTRODUCTION TO MACROECONOMICS  5
ECON 304  INTERMEDIATE MICROECONOMIC THEORY  5
ECON 305  INTERMEDIATE MACROECONOMIC THEORY  5
ECON 337  ECONOMETRICS  5
ECON 430  MATHEMATICAL ECONOMICS  5
ECON 490  ECONOMICS SENIOR CAPSTONE  5
MATH 161  CALCULUS I  5
MATH 162  CALCULUS II  5
MATH 163  CALCULUS III  5

Economics Electives—choose upper-division ECON courses from those not listed above.  15

Mathematics Elective—choose one  4-5

MATH 231  LINEAR ALGEBRA
MATH 347  INTRODUCTORY DIFFERENTIAL EQUATIONS
MATH 385  PROBABILITY AND STATISTICAL INFERENCER  1

Total Credits  67-68

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• use supply and demand modeling to predict and/or explain some economic event;
• use quantitative skills to analyze economic data;
• understand the use of fiscal and monetary policies in addressing contemporary macroeconomic issues;
• understand and apply the Cost/Benefit Principle to a current socio-economic issue.

Economics Major, Bachelor of Arts (BA)

Note: in order to graduate with a BA in Economics, students must complete ECON 304 and ECON 305 with a minimum grade ≥2.0 and the cumulative GPA for all courses completed towards the major must be ≥2.0.

Economics Required Core

ACCT 251  PRINCIPLES OF FINANCIAL ACCOUNTING  5
DSCI 245  DATA ANALYSIS FOR BUSINESS  4-5
or MATH 380  ELEMENTARY PROBABILITY AND STATISTICS
ECON 200  INTRODUCTION TO MICROECONOMICS  5
ECON 201  INTRODUCTION TO MACROECONOMICS  5
ECON 304  INTERMEDIATE MICROECONOMIC THEORY  5
ECON 305  INTERMEDIATE MACROECONOMIC THEORY  5
ECON 337  ECONOMETRICS  5
ECON 490  ECONOMICS SENIOR CAPSTONE  5
FINC 335  FINANCIAL MANAGEMENT  4

Electives—students may choose any electives from upper-division economics courses not listed above.  24

Total Credits  69-70

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• use supply and demand modeling to predict and/or explain some economic event;
• use quantitative skills to analyze economic data;
• understand the use of fiscal and monetary policies in addressing contemporary macroeconomic issues;
• understand and apply the Cost/Benefit Principle to a current socio-economic issue.

Economics Major, Bachelor of Science (BS)

Notes: in order to graduate with a BS in Economics, students must complete ECON 304 and ECON 305 with a grade point ≥2.0 and the cumulative GPA for all courses completed towards the major must be ≥2.0.

Required Economics Core

ECON 200  INTRODUCTION TO MICROECONOMICS  5
ECON 201  INTRODUCTION TO MACROECONOMICS  5
ECON 304  INTERMEDIATE MICROECONOMIC THEORY  5
ECON 305  INTERMEDIATE MACROECONOMIC THEORY  5
ECON 337  ECONOMETRICS  5
ECON 430  MATHEMATICAL ECONOMICS  5
or ECON 438  ECONOMETRICS II
ECON 490  ECONOMICS SENIOR CAPSTONE  5
MATH 200  FINITE MATHEMATICS  5
or MATH 161  CALCULUS I

Choose one introductory statistics course from the following or with approval of the department chair  4-5
Economics Minor

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 201</td>
<td>INTRODUCTION TO MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>choose upper-division courses in Economics.</td>
<td>8-10</td>
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Total Credits 18-20

General Education Economics Minor

Required Course

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON 100</td>
<td>GENERAL EDUCATION ECONOMICS</td>
<td>5</td>
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<tr>
<td>Electives</td>
<td>choose three from the following</td>
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<tr>
<td>ECON 412</td>
<td>ECONOMIC HISTORY OF THE UNITED STATES</td>
<td></td>
</tr>
<tr>
<td>ECON 415</td>
<td>HISTORY OF ECONOMIC THOUGHT</td>
<td></td>
</tr>
<tr>
<td>ECON 417</td>
<td>POLITICAL ECONOMY</td>
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</tr>
<tr>
<td>ECON 424</td>
<td>ECONOMICS OF POVERTY AND DISCRIMINATION</td>
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</table>

Total Credits 20

Regional Economic and Public Policy Analysis Graduate Certificate

Program Prerequisites

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BADM 500</td>
<td>ECONOMIC ANALYSIS</td>
<td>4</td>
</tr>
<tr>
<td>PLAN 496</td>
<td>EXPERIMENTAL COURSE (APPLIED STATISTICS FOR PUBLIC POLICY)</td>
<td>4</td>
</tr>
<tr>
<td>or PLAN 539</td>
<td>SPECIAL TOPICS</td>
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</table>

Required Certificate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON 558</td>
<td>URBAN AND REGIONAL ECONOMICS</td>
<td>4</td>
</tr>
<tr>
<td>ECON 589</td>
<td>TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS (or)</td>
<td>4</td>
</tr>
<tr>
<td>or PADM 589</td>
<td>TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS</td>
<td></td>
</tr>
<tr>
<td>or PLAN 589</td>
<td>TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS</td>
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<tr>
<td>PADM 507</td>
<td>PUBLIC POLICY ANALYSIS</td>
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<tr>
<td>or PLAN 524</td>
<td>ADVANCED STRATEGIC PLANNING</td>
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</table>
Health Informatics Technology and Management, Bachelor of Science (BS)

The Health Informatics Technology and Management Bachelor of Science degree has been created as an interdisciplinary offering. Students admitted to the program would study a curriculum that blends three disciplines: health services administration, management information systems and computer science. This program is designed to prepare students as health information technology professionals to manage and use health information and emerging electronic information technologies in the healthcare industry. Graduates will be prepared to participate in the design of data schemas for health information systems, in the definition and analysis of requirements for health information systems, in the design, deployment and querying of reporting systems via both direct query and reporting tools for use in administrative, clinical and support areas.

Any EWU student who has completed or nearly completed the prerequisite courses may declare a major in HITM. HITM students must maintain a cumulative GPA ≥3.0 for all HSAD, CSCD and MISC classes. No more than two courses in HSAD, CSCD and MISC classes may be <3.0. Students earning three or more grades <3.0 in HSAD, CSCD and MISC will be dismissed from the program. The culmination of the student’s experience in the program will be an internship in a healthcare setting. Students in the HITM program must have an overall cumulative grade point average ≥2.25. MATH 200 is highly recommended before taking business classes.

Note: HITM students must maintain a cumulative GPA ≥3.0 for all HSAD, CSCD and MISC classes.

Professional Membership Requirements

Every student graduating in the Health Informatics Technology and Management must be a student member of a national professional organization for the discipline at least by their senior year.

Work Experience Requirement

It is strongly advised that all students seek as much practical experience as possible, whether paid or volunteer. Students are urged to consult with their advisors in order to plan their program.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCT 251</td>
<td>Principles of Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 252</td>
<td>Principles of Management Accounting</td>
<td>4</td>
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<tr>
<td>BUED 302</td>
<td>Business Communication</td>
<td>4</td>
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<tr>
<td>DSCI 245</td>
<td>Data Analysis for Business</td>
<td>4</td>
</tr>
<tr>
<td>DSCI 346</td>
<td>Advanced Data Analysis for Business</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Introduction to Microeconomics</td>
<td>5</td>
</tr>
<tr>
<td>ECON 445</td>
<td>Insurance and Risk</td>
<td>5</td>
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<tr>
<td>ECON 452</td>
<td>Health Economics</td>
<td>5</td>
</tr>
<tr>
<td>HLED 256</td>
<td>Medical Terminology</td>
<td>2</td>
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<tr>
<td>or OCTH 292</td>
<td>Foundations of Documentation and Medical Terminology for the Rehabilitation Professional</td>
<td>2</td>
</tr>
<tr>
<td>HSAD 300</td>
<td>Health Care Organization and Administration</td>
<td>4</td>
</tr>
<tr>
<td>HSAD 310</td>
<td>Health Care Supervision</td>
<td>4</td>
</tr>
<tr>
<td>HSAD 410</td>
<td>Health Law Regulation and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>HSAD 435</td>
<td>Process Improvement in Health Care</td>
<td>4</td>
</tr>
<tr>
<td>HSAD 440</td>
<td>Healthcare Research Design and Method</td>
<td>4</td>
</tr>
<tr>
<td>HSAD 455</td>
<td>Healthcare Billing</td>
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<tr>
<td>HSAD 490</td>
<td>Senior Capstone</td>
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<tr>
<td>or CSCD 490</td>
<td>Senior Capstone</td>
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</tr>
<tr>
<td>HSAD 495</td>
<td>Internship</td>
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<tr>
<td>HUMR 328</td>
<td>Human Resource Management</td>
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<tr>
<td>MISC 211</td>
<td>Information Technology in Business</td>
<td>4</td>
</tr>
<tr>
<td>MISC 372</td>
<td>Data Communication and Network Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>or CSCD 330</td>
<td>Computer Networks</td>
<td>4</td>
</tr>
<tr>
<td>MISC 373</td>
<td>Business Database Applications</td>
<td>4</td>
</tr>
<tr>
<td>or CSCD 327</td>
<td>Relational Database Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISC 481</td>
<td>Systems Analysis and Design</td>
<td>4</td>
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<tr>
<td>or CSCD 350</td>
<td>Software Engineering</td>
<td>4</td>
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<tr>
<td>MISC 486</td>
<td>Information Security Management</td>
<td>4</td>
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<tr>
<td>MISC 488</td>
<td>Health Information Technology</td>
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</tbody>
</table>

Total Credits 97

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate effective written and oral communication skills;
- understand health care administration;
- understand business domain knowledge, such as accounting, finance, marketing, human resource management, logistics and supply chain;
- acquire MIS technical skills, including programming principles, database principles, networking and data communications;
- demonstrate problem-solving abilities by applying MIS technical skills, including business application program design and business database design;
- demonstrate MIS and HSAD project development skills through system analysis and design;
- demonstrate HI project management skills and team skills.
Planning

Dick Winchell, Chair
department page (https://www.ewu.edu/cbpa/programs/urban-regional-planning)
668 N. Riverpoint, Suite A
Spokane, WA 99202 509.828.1218

Many social, physical, economic, technical and political issues in society
cry out for definition and resolution. Among these are: sustainability and
climate change, decline in central cities, deterioration of neighborhoods,
iefficient and inequitable taxing and regulation policies, congestion and
other problems of accessibility, the impact of growth and change, an
erosion of natural resources including water, land and air, and inefficient
or absent human services. Urban and regional planning is one of society’s
means for addressing these problems in a creative, positive manner.
Planning is a problem-solving profession that is concerned with the
forces that influence the quality of life in the neighborhood, city, region,
state, nation and world. Thus, planning provides a unique occupational
avenue for those who desire a role in shaping a better future.

The mission of Eastern’s programs in Urban and Regional Planning
is to provide quality professional planning education, research, and
community service with an emphasis on problem solving at the local
level. To achieve this goal, the department stresses the acquisition of
practical, analytical and organizational skills designed to aid the
student in analyzing problems and organizing community activities to
help solve problems. The combination of classroom instruction and
applied planning field projects develops professional competence and
ensures that each student has the requisite abilities to function within
the profession after leaving the program. The department takes particular
pride in having the only accredited undergraduate planning degree in the
Northwest and one of only 14 in the nation, plus one of four accredited
MURP degrees in the Northwest.

The department is housed in excellent academic facilities at the EWU
Spokane Campus and the Cheney Campus and has excellent space and
resources for students: drafting studio facilities, computer terminals,
computer labs, wireless internet, a geographic information systems (GIS)
laboratory, as well as access to a variety of other campus and community
resources.

Planning Scholarships for Undergraduate and Graduate Students
The Planning programs provide the following scholarships for planning
majors. Applications are available in the Spring quarter of each year.

• The Frank Schaedegg Memorial Scholarship award ($1,500)
• The Washington Chapter APA Scholarship for an undergraduate or
  graduate student ($3,000)
• King Cole Scholarship ($1,250)
• Leonard Zickler Scholarship ($1,250)

Awards Program Information
The Planning Programs conduct an annual awards program, with the
College of Business and Public Administration to recognize students for
work accomplished during their academic careers. These awards include:

Undergraduate Scholarship Award: awarded to the graduating senior
whose academic achievement has been outstanding.

Graduate Scholarship Award: awarded to the graduating master’s degree
candidate whose academic achievement has been outstanding.

Community Service Award: awarded to a graduating student who has
accomplished noteworthy and exemplary contributions in public service
to regional communities.

Professional Achievement Award: awarded to a graduate student who
has demonstrated outstanding professional knowledge and skill in the
performance of a professional internship or research project.

AICP National Professional Award: awarded by the Planning
Accreditation Board (PAB) upon recommendation of the Planning
faculty for one graduate and one undergraduate student that represent
excellence in academic and professional planning.

Teaching Methods
The Planning programs emphasize the acquisition and application
of practical professional skills. Therefore, students not only acquire
knowledge in the classroom, but also are involved in field projects
requiring systematic application of this information. These field projects
are often linked to the programs’s community service function. Our
curriculum at both the undergraduate and graduate level focus plan
making and methods as well as state of the art tools for data driven
planning.

Community Service Information
The department has a long history of providing planning and community
development services to urban neighborhoods, towns and cities
throughout Eastern Washington through its community service
program. This work is conducted either on a contract basis with these
communities or through other mechanisms. This work provides students
with the opportunity to apply their knowledge and skills in realistic
planning settings.

Internships Information
The Planning programs maintain an active internship program with local
and regional planning agencies throughout the Northwest. Internships
are encouraged but not required. An intern gains valuable practical
experience while earning credits toward the degree. Credit allocation is
determined by the amount of time the student works in the agency.

Career Placement Information
The long-range job outlook for urban and regional planners is excellent,
with most graduates pursuing a career in local or state government.
There is an expanding need for planners in the private sector including
consulting firms, land development companies and large corporations
involved in land management and location analysis. Planners are also
found in non-profit organizations involved in community problem solving.
These positions complement more traditional jobs in the public sector
including those dealing with comprehensive planning, land use regulation
and transportation systems management. The department takes an
active role in placing students and is proud of its continuing success
in finding positions for its graduates. Agencies and organizations
throughout the Pacific Northwest compliment the program for producing
graduates who need little additional training to assume their employment
responsibilities.

Tribal Planning Curriculum
EWU has developed a special, long term relationship with American Indian Tribal
governments and organizations, including the Affiliated tribes of Northwest
Indians. EWU has developed coursework and service/applied research programs
to serve and work with tribal governments. Tribal governments maintain
sovereign status in relation to the federal government, which includes the power
to plan. The Planning Programs offer courses in Tribal planning, a graduate
specialization, and an Executive Certificate in Tribal Planning.
Undergraduate Degrees

Bachelor of Arts (BA)
- Urban and Regional Planning (p. 199)

Undergraduate Minor
- Urban and Regional Planning (p. 201)

Undergraduate Programs

General Admissions Information for Urban and Regional Planning:
Students considering a major in planning should contact the Department’s undergraduate program advisor as early in their academic careers as possible and declare their Planning major. Early counseling can help students select GECR courses which best complement their major course requirements. Transfer students should contact the Planning faculty advisor during their admission process to have their records reviewed and declare a Planning major.

In general, students that major in planning are encouraged to select their GECR courses from the following areas: physical and human geography, geology, biology, statistics, sociology, economics and government. Knowledge in these disciplines will aid students in their planning courses.

The university requires that all students receiving a Bachelor of Arts degree fulfill a foreign language requirement. Students who have had two years of the same language during their high school education or one year of the same language at the college level have fulfilled this requirement. This requirement applies to all planning majors. Undergraduates seeking a degree in planning must complete this requirement including students transferring with an associate of arts degree. If the requirement has not been completed prior to admission to the program, the student, in consultation with the Planning faculty advisor, will have to schedule the completion of their foreign language requirement during their tenure in the planning program.

Although there are no formal admission requirements for entering the undergraduate planning program, other than university requirements, acquisition of basic skills in English composition and mathematics is important preparation for the planning major. Normally, students who enter the program as second or third quarter sophomores or juniors should have completed these requirements. Those students who have not will be expected to complete these requirements within the first three quarters of their tenure in the planning program.

Credit Through Evaluation

Students with life experiences that are closely related to work in the planning profession, community organizing or other similar work, can have a faculty member review their work for credit through evaluation. Credits toward the degree requirements can be granted if these life experiences are sufficient. Credits gained through evaluation are applied to the elective credits in the major.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees

Master's of Urban and Regional Planning (MURP)
- Master of Urban and Regional Planning (p. 200)

Alternate Degree Options
- Master of Urban and Regional Planning with Master in Public Administration
- Master of Interdisciplinary Studies with a Planning emphasis

Graduate Certificates
- Executive Certificate in Tribal Planning (p. 200)
- Regional Economic and Public Policy Analysis (p. 194) Graduate Certificate (p. 194)

Graduate Program

Kerry Brooks, Graduate Advisor
EWU Spokane, SEWC Building
668 N. Riverpoint Blvd., Suite A
Spokane, Washington 99202-1661
509.828.1230

Alternative Degree Options
- Dual Degree with MPA
  - The Urban and Regional Planning Programs and the graduate program in Public Administration offer a dual-degree program in Planning and Public Administration. Student will receive two Masters degrees, the MURP and the MPA upon completion of this curriculum. However, students who complete these programs will not be considered to have graduated from the accredited program as described above without fulfilling all of the above requirements in addition to those specified in the dual degree program.
  - Master of Interdisciplinary Studies with a Planning Emphasis
    - In addition to the MURP, students may elect to complete an Interdisciplinary Master’s Degree by arranging a set of courses with two or more departments. In this case, students receive the appropriate degree, MA or MS, but not the MURP degree.

Students interested in either of these options must contact the Planning program’s advisor and have approval to register.

Graduate Certificate in Regional Economic Policy Analysis

The Graduate Certificate in Regional Economic Policy Analysis offers the opportunity to expand and enhance quantitative skills to analyze policy issues such as the regional economic impact of proposed housing projects, plant closures, or social program expansions. The focus of the certificate is on the development of analytical methods of economics and statistics; identification of appropriate statistical information for regional analysis; application of tools, methodologies and techniques of policy analysis; and the use of analytical tools and methods such as GIS, input-output analysis, regression analysis and computer modeling.

The REPA Certificate is a 28 credit curriculum that can be a part of a graduate program at EWU or a stand-alone certificate. All students must complete the graduate admissions requirements.
Students in the certificate program should consult with their appropriate advisor: the Planning and Public Administration Department Chair or the Economics Department Chair.

Registration
Before the first registration, students should consult the department’s graduate advisor for assistance in planning courses for the first quarter. The graduate advisor has responsibility for guiding the student until the student has selected a graduate committee. Once the committee has been selected, the chair of the committee provides guidance for the student.

To complete this degree in two years, students must take at least 12 credits per quarter. The load for a full-time graduate student is 12 to 17 hours per quarter. An additional charge will be assessed for credits in excess of 18. Students enrolling for more than 17 credits must have written approval from the program’s graduate advisor or chair of their graduate committee plus the department chair.

Enrollment Requirements
Students admitted to the Master of Urban and Regional Planning Program must maintain continuous enrollment from the first matriculation until all requirements for the degree are completed. Enrollment may be met in one of the following categories:

1. full-time enrollment of 10 credits or more;
2. part-time enrollment of less than 10 credits;
3. in absentia enrollment.

Graduate students are considered to be actively pursuing a degree from the first enrollment in the graduate planning program until graduation or until the limits described in this catalog have expired.

Under unusual circumstances, a student may petition for a leave of absence. If the petition is granted, the registration requirement will be set aside during that period of leave. Leaves will be granted only under conditions that require the suspension of all activities associated with the student’s degree program, including the research project. The leave of absence shall be for no more than one year. A written request for leave of absence shall be submitted to the student’s committee for approval. The recommendation shall be forwarded to the Graduate Studies Office.

Students who have completed all courses in their program other than PLAN 601 shall continue to register for at least 2 credits of planning courses until the degree requirements have been completed. An approved leave of absence is the only exception to this requirement.

Students who do not comply with these requirements for continuous enrollment will have their future registration blocked. They will be allowed to register only after receiving a favorable recommendation from the department’s faculty, endorsement of the department chair and the approval of the dean of the College of Business and Public Administration.

Student’s Advisory Committee
After receiving admission to Graduate Programs and the Department of Urban and Regional Planning, the student will consult with the graduate Planning program advisor concerning appointment of the chair of the student’s advisory committee. The graduate committee administering the comprehensive examination shall, according to department policy, be comprised of three members: two faculty members from the Planning programs, with one serving as chair and a third faculty member from another academic discipline. The committee member from outside the student’s discipline may either be appointed by the Graduate Studies Office or students may elect to take the initiative and have a faculty member of their choosing appointed to the third committee position. If the second option is selected, students have the responsibility of approaching such potential members to secure their willingness to serve and the subsequent responsibility of notifying the Graduate Programs Office so that the willing outside members may formally be appointed to committee assignments.

No adjunct, part-time or other faculty located away from the campus may serve as chair of a student’s advisory committee, but they may serve as a member.

The student’s advisory committee chair has the responsibility for guiding and directing the entire academic program of the student. The student has the responsibility for initiating academic actions concerning the advisory committee. The chair of the advisory committee has immediate supervision of the student’s academic planning and research project. The chair also has the responsibility for calling required meetings of the advisory committee or other informal meetings considered desirable.

The duties of the advisory committee include the responsibility for the degree program, the research or internship proposal, the research project, the internship report and the final examination. In addition, the advisory committee, as a group and as individual members, is responsible for counseling the student on academic matters and in the case of academic deficiency initiating recommendations to the Graduate Programs Office.

The student’s advisory committee will evaluate the student’s previous training and degree objectives. The committee will then outline a proposed degree program and a research project. These activities along with the student’s other courses will constitute the student’s program. The student’s proposed degree program must be included in the Application for Degree Candidacy form. This form must be submitted to the Graduate Programs Office prior to the fourth quarter of registration, with endorsements by the student’s advisory committee and the graduate program advisor.

The advisory committee chair chair and the second planning faculty must meet together with the student to review and approve the student’s research proposal by the end of the fourth quarter in the program.

Additional courses may be added to the approved degree program by the student’s advisory committee if such additional coursework is deemed necessary to correct deficiencies in the student’s academic preparation. Changes to an approved degree program can be made with the approval of the student’s advisory committee.

Research Project Reports
Successful completion of a research report is required for the degree of Master of Urban and Regional Planning. Either an academic or applied research paper in the form of a report is required. A research report must be the original work of the candidate but it may incorporate portions of plans the students completed as an intern or on funded research. Either type of report must be grammatically correct, reflect the candidate’s ability to express thoughts clearly and adhere to the format of articles and reports contained in the Journal of the American Planning Association. The research report shall also contain an abstract not exceeding 350 words and a vita page. Instructions relating to the specific requirements of either type of report may be obtained from the department office.

Final Comprehensive Examinations
The candidate for the degree of Master of Urban and Regional Planning must pass a final examination. At the time of the final examination, a
student’s cumulative GPA ≥3.0. There must be no unabsolved grades <2.0. The student must have completed all degree program course work with the exception of those courses scheduled during the quarter of the examination. Students who have not met these conditions are not eligible to take the final examination.

All students will be required to pass an oral examination during their final quarter. That oral examination shall consist of questions pertaining to the department’s curriculum and the candidate’s own areas of study. The examination may, at the discretion of the student’s committee, include a written component. In addition, all students are required to defend a research or internship report during the course of the final examination.

The final examination is conducted by the student’s advisory committee. The oral examination is open to the public; however, only committee members vote.

It is the candidate’s responsibility to schedule the comprehensive examination at a time agreeable to committee members and to notify the Graduate Programs Office at least two weeks prior to the examination date. In addition to complying with university procedures regarding such matters as deadlines and notification requirements, students within the department must also satisfy additional procedural requirements with respect to the written component of their final examinations. They must submit a research proposal for review and approval by their chair and second at the beginning of the student’s fourth term of classes. They must also submit an acceptable draft of their research or professional internship report to the chair of their committee no later than the end of the third week of the quarter in which they intend to graduate. In addition, they are also required to submit a final copy of such reports at least two weeks prior to the comprehensive examination.

Students must be registered at the university during the quarter in which the examination is given. A student shall be given only one opportunity to repeat the final examination and that shall be scheduled within the quarter following the first taking of the examination (summer quarter excluded).

## Urban and Regional Planning Major, Bachelor of Arts (BA)

The department offers a 90-credit Bachelor of Arts major and a 15-credit minor in urban and regional planning. The Bachelor of Arts major is a fully accredited professional degree that prepares the student for entry-level positions in planning.

Students majoring in planning normally enter the program during their second or third year of undergraduate studies. The Planning minor should be utilized by students majoring in other programs who perceive planning as a complement to their education.

In addition to the baccalaureate programs, the department also offers students the opportunity to earn dual degrees with other academic programs. In the past, students have earned concurrent degrees in geography, economics, sociology and government. Students from other programs may also take courses in the department.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
</tbody>
</table>

### Electives—courses offered with the following topical/non-standard numbers may be used as electives if approved by a PLAN advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>or DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
</tr>
<tr>
<td>GEOG 100</td>
<td>FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT</td>
</tr>
<tr>
<td>PLAN 201</td>
<td>INTRODUCTION TO URBAN AND REGIONAL PLANNING</td>
</tr>
<tr>
<td>PLAN 261</td>
<td>COMMUNITY DEVELOPMENT</td>
</tr>
<tr>
<td>PLAN 271</td>
<td>PROFESSIONAL PRACTICE</td>
</tr>
<tr>
<td>PLAN 300</td>
<td>PLANNING PRESENT TECHNIQUES</td>
</tr>
<tr>
<td>PLAN 301</td>
<td>PLANNING METHODS AND TECHNIQUES</td>
</tr>
<tr>
<td>PLAN 402</td>
<td>PLANNING IMPLEMENTATION</td>
</tr>
<tr>
<td>PLAN 403</td>
<td>COMMUNITY FACILITIES PLANNING</td>
</tr>
<tr>
<td>PLAN 406</td>
<td>PLANNING LAW AND LEGISLATION</td>
</tr>
<tr>
<td>PLAN 430</td>
<td>ENVIRONMENTAL PLANNING</td>
</tr>
<tr>
<td>PLAN 440</td>
<td>LAND USE PLANNING</td>
</tr>
<tr>
<td>PLAN 450</td>
<td>TRANSPORTATION PLANNING</td>
</tr>
<tr>
<td>PLAN 456</td>
<td>URBAN DESIGN</td>
</tr>
<tr>
<td>PLAN 490</td>
<td>SENIOR CAPSTONE: PLANNING STUDIO</td>
</tr>
<tr>
<td>POLI 330</td>
<td>FEDERALISM, STATE AND LOCAL POLITICS</td>
</tr>
</tbody>
</table>

Note: electives in other departments possible upon consultation with permission of the undergraduate planning advisor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PLAN 496</td>
<td>EXPERIMENTAL COURSE</td>
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</tbody>
</table>

### Other Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 458</td>
<td>URBAN AND REGIONAL ECONOMICS</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>SURFACE HYDROLOGY</td>
</tr>
<tr>
<td>GEOG 325</td>
<td>WETLAND SCIENCE I</td>
</tr>
<tr>
<td>GEOG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
</tr>
<tr>
<td>GEOG 428</td>
<td>GEOGRAPHIC INFORMATION SYSTEMS II</td>
</tr>
<tr>
<td>GEOG 429</td>
<td>GEOGRAPHIC INFORMATION SYSTEMS III</td>
</tr>
<tr>
<td>GEOG 465</td>
<td>URBAN GEOGRAPHY: ORIGINS, FORMS AND FUNCTIONS</td>
</tr>
<tr>
<td>GEOE 360</td>
<td>GEOLOGIC HAZARDS</td>
</tr>
<tr>
<td>PLAN 302</td>
<td>CENSUS AND PLANNING</td>
</tr>
<tr>
<td>PLAN 375</td>
<td>TRIBAL PLANNING</td>
</tr>
<tr>
<td>PLAN 421</td>
<td>TRIBAL TRANSPORTATION PLANNING</td>
</tr>
<tr>
<td>PLAN 422</td>
<td>TRIBAL ECONOMIC DEVELOPMENT</td>
</tr>
<tr>
<td>PLAN 431</td>
<td>ENVIRONMENTAL IMPACT STATEMENTS</td>
</tr>
<tr>
<td>PLAN 441</td>
<td>SITE PLANNING</td>
</tr>
<tr>
<td>PLAN 442</td>
<td>SUSTAINABLE COMMUNITIES</td>
</tr>
<tr>
<td>PLAN 445</td>
<td>LAND DEVELOPMENT</td>
</tr>
<tr>
<td>PLAN 446</td>
<td>DEVELOPMENT REVIEW</td>
</tr>
<tr>
<td>PLAN 451</td>
<td>WALKABLE COMMUNITIES</td>
</tr>
<tr>
<td>PLAN 457</td>
<td>SPECIAL TOPICS IN TRANSPORTATION</td>
</tr>
<tr>
<td>PLAN 465</td>
<td>HISTORIC PRESERVATION PLANNING</td>
</tr>
<tr>
<td>PLAN 466</td>
<td>MAIN STREET PLANNING</td>
</tr>
<tr>
<td>PLAN 467</td>
<td>PARKS PLANNING</td>
</tr>
<tr>
<td>PLAN 470</td>
<td>COMMUNITY PARTICIPATION TECHNIQUES</td>
</tr>
<tr>
<td>PLAN 471</td>
<td>RURAL AND SMALL TOWN PLANNING</td>
</tr>
<tr>
<td>PLAN 473</td>
<td>PLANNING IN THE WESTERN U.S.</td>
</tr>
<tr>
<td>PLAN 472</td>
<td>HOUSING</td>
</tr>
<tr>
<td>PLAN 476</td>
<td>COMPARATIVE URBANIZATION</td>
</tr>
<tr>
<td>PLAN 495</td>
<td>PLANNING INTERNSHIP</td>
</tr>
</tbody>
</table>
Note: students in the Certificate program should consult with the Tribal Planning list. The 20 credits of required classes listed below with an asterisk (*), plus requirements for the Planning Program (above). Students must complete the graduate admissions requirements/Preparation of the MURP program include:

1. two letters of recommendation submitted to the planning graduate advisor of the Department of Urban Planning, Public and Health Administration. Both letters should be from instructors familiar with the applicant’s undergraduate or, where applicable, graduate academic record. In the event the applicant has professional planning experience, letters may come from a supervisor or person familiar with planning work of the applicant;
2. all applicants shall also submit a personal letter of intent explaining why they wish to study planning and outlining their educational and career goals;
3. all applicants for the program must have completed a class in statistics prior to entry into the program or complete a course while in the program. In the latter case, the credits for the class will not be included in the 72 credits required for the degree.

Student Learning Outcomes—students will
- understand historical and contemporary planning practice, policy and processes based on knowledge of the relevant concepts and theories;
- understand human settlements as they relate to planning based on knowledge of the relevant concepts and theories;
- demonstrate skills needed to practice planning based on knowledge of the relevant concepts and theories;
- understand the different values and ethical standards affecting the practice of planning.

Urban and Regional Planning, Master of Urban and Regional Planning (MURP)

The MURP Program is a two-year professional curriculum. The program is one of only four in the Pacific Northwest states that is professionally accredited by the Planning Accreditation Board.

The purposes of the graduate planning program are as follows:
1. to provide communities and agencies with competent professionals in the field of urban and regional planning;
2. to prepare professionals who can develop and administer planning policies for the economic vitality, resource efficiency and environmental quality of communities and regions;
3. to fulfill the need for planning-related research with particular emphasis given to research benefiting the region and state;
4. to provide community services in the form of continuing education for public officials, practicing professionals and citizens; technical assistance for area agencies and communities; information and technology exchange with appropriate local, state and federal authorities.

The major distinction between Eastern’s and other planning programs is that our combined teaching and practice focuses on problem solving at regional and community scales.

Admission requirements/Preparation of the MURP program include those required by the graduate school as well as the following:
1. two letters of recommendation submitted to the planning graduate advisor of the Department of Urban Planning, Public and Health Administration. Both letters should be from instructors familiar with the applicant’s undergraduate or, where applicable, graduate academic record. In the event the applicant has professional planning experience, letters may come from a supervisor or person familiar with planning work of the applicant;
2. all applicants shall also submit a personal letter of intent explaining why they wish to study planning and outlining their educational and career goals;
3. all applicants for the program must have completed a class in statistics prior to entry into the program or complete a course while in the program. In the latter case, the credits for the class will not be included in the 72 credits required for the degree.

Degree Requirements
Each student will be expected to complete a minimum of 72 credit hours, including at least 36 hours at the 500 level or above. Graduate students are encouraged to use selected upper division undergraduate courses as electives and in support and pursuit of an area of specialization.
Degree Options—choose one of the following specializations for the MA.

- Tribal Planning Option
- Environmental Planning Option
- Small Town Planning Option

Students selecting a specialization must complete the core of a specialization, under advisement from their committee select the majority of their remaining electives from courses that support their area of specialization and do their research paper in the specialty area. The following list indicates the core required classes and additional classes for each specialty area.

The candidate for the degree of Master of Urban and Regional Planning must pass a final examination. At the time of the final examination, a student’s cumulative GPA ≥3.0. There must be no unabsolved grades <2.0.

Notes:

- students may not count more than 5 credits in PLAN 599 in their program nor exceed 10 credits in PLAN 599 in combination with PLAN 595 Graduate Internship;
- with the exception of those who have applied for leaves of absence, students who enroll in PLAN 601 Research Project must maintain continuous enrollment until their degree requirements are met.

### Required Core Curriculum

#### Theory/Philosophy

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 501</td>
<td>FOUNDATIONS OF PLANNING</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 502</td>
<td>ADVANCED COMMUNITY DEVELOPMENT</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 508</td>
<td>REFLECTIVE PLANNING THEORY</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Administrative/Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 500</td>
<td>PLANNING PRACTICE</td>
<td>2</td>
</tr>
<tr>
<td>PLAN 505</td>
<td>PLANNING IMPLEMENTATION AND LAW</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Methods/Techniques

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 503</td>
<td>PLANNING METHODS I</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 504</td>
<td>PLANNING METHODS II</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 506</td>
<td>PLANNING METHODS III</td>
<td>5</td>
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</tbody>
</table>

#### Applied Synthesis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 507</td>
<td>ADVANCED PLANNING STUDIO</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 591</td>
<td>RESEARCH PROJECT PREPARATION</td>
<td>1</td>
</tr>
<tr>
<td>PLAN 601</td>
<td>RESEARCH PROJECT</td>
<td>5</td>
</tr>
<tr>
<td>or PLAN 695</td>
<td>PROFESSIONAL INTERNSHIP</td>
<td></td>
</tr>
</tbody>
</table>

### Degree Options—choose a specialization core and add additional electives to meet the minimum

#### Generalist—Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 540</td>
<td>LAND USE PLANNING</td>
<td></td>
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</tbody>
</table>

Additional courses—choose two of the following courses

- PLAN 460 URBAN DESIGN
- PLAN 510 COMMUNITY FACILITIES PLANNING
- PLAN 551 TRANSPORTATION PLANNING

### Plan Options—choose one of the following specializations

#### Tribal Planning Specialization—Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 523</td>
<td>AMERICAN INDIAN PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 530</td>
<td>CONTEMPORARY AMERICAN INDIAN PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 531</td>
<td>CENSUS DATA FOR AMERICAN INDIAN PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 533</td>
<td>AMERICAN INDIAN LAW FOR PLANNERS</td>
<td></td>
</tr>
<tr>
<td>PLAN 540</td>
<td>LAND USE PLANNING</td>
<td></td>
</tr>
</tbody>
</table>

Additional courses

- PLAN 524 ADVANCED STRATEGIC PLANNING
- PLAN 528 AMERICAN INDIAN HEALTH AND COMMUNITY
- PLAN 529 AMERICAN INDIAN HEALTH CARE SYSTEMS AND SERVICES
- PLAN 532 AMERICAN INDIAN ECONOMIC DEVELOPMENT
- PLAN 534 AMERICAN INDIAN TRANSPORTATION PLANNING
- PLAN 560 AMERICAN INDIAN PLANNING STUDIO

#### Environmental Planning Specialization—Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 540</td>
<td>LAND USE PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 542</td>
<td>SUSTAINABLE COMMUNITIES</td>
<td></td>
</tr>
<tr>
<td>PLAN 570</td>
<td>ENVIRONMENTAL PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 571</td>
<td>ENVIRONMENTAL REVIEW</td>
<td></td>
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</tbody>
</table>

Additional Courses

- PLAN 466 MAIN STREET PLANNING
- PLAN 473 PLANNING IN THE WESTERN U.S.

#### Small Town Planning Specialization—Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 510</td>
<td>COMMUNITY FACILITIES PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 514</td>
<td>LOCAL ECONOMIC DEVELOPMENT PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 540</td>
<td>LAND USE PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 572</td>
<td>RURAL AND SMALL TOWN PLANNING</td>
<td></td>
</tr>
</tbody>
</table>

Additional Courses

- PLAN 466 MAIN STREET PLANNING
- PLAN 473 PLANNING IN THE WESTERN U.S.

Total Credits 72

### Student Learning Outcomes—students will

- understand historical and contemporary planning practice, policy and processes based on knowledge of the relevant concepts and theories;
- understand human settlements as they relate to planning based on knowledge of the relevant concepts and theories;
- demonstrate skills needed to practice planning in a variety of venues in ways consistent with planning ethics;
- understand the different values and ethical standards affecting the practice of planning.

### Urban and Regional Planning Minor

#### Required—choose one course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 201</td>
<td>INTRODUCTION TO URBAN AND REGIONAL PLANNING</td>
<td></td>
</tr>
<tr>
<td>PLAN 261</td>
<td>COMMUNITY DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>PLAN 301</td>
<td>PLANNING METHODS AND TECHNIQUES</td>
<td></td>
</tr>
</tbody>
</table>

#### Electives—additional courses may be selected from above or other PLAN courses.

Total Credits 15
Public Administration

Robert Zinke, Program Director
program page (https://www.ewu.edu/cbpa/programs/public-administration)
668 N Riverpoint Blvd, Suite A
Spokane, WA 99202
509.828.1239

Faculty

Graduate Degrees

Master’s of Public Administration (MPA)
• Master of Public Administration (p. 205)
• Advanced Standing MPA Program (p. 205)

Graduate Certificates
• Public Management Development (p. 206)
• Regional Economic and Public Policy Analysis (p. 194) Graduate Certificate (p. 194)

Graduate Programs

The Graduate Program in Public Administration (PADM) is designed to provide widely varied educational opportunities in the fields of public and not-for-profit management. Graduate study opportunities are available for those currently employed as well as for recent graduates seeking a career in the public service. Both full-time and part-time study programs are available on a degree and non-degree basis.

Students in PADM are encouraged to become aware of the public service environment, the values that guide public service and the critical and analytical skills necessary to formulate, implement and evaluate public service decisions.

Program faculty, all of whom hold doctoral degrees and have public service management experience, have been selected from the several academic areas most pertinent to public sector applications. Adjunct faculty are highly trained, qualified and experienced academics and practitioners.

Alternatives offered include a master’s degree in public administration (60 quarter credit hours), several types of dual degrees (MBA/MPA, MSW/MPA, MURP/MPA), a Public Management Development Certificate Program (as few as 16 credit hours) and, a certificate in Regional Economic Policy Analysis.

Students interested in any of these alternatives should contact the Director of PADM for further information.

Scheduling
To make the PADM courses more accessible to those employed full-time, all coursework is offered at the EWU Spokane Campus, either during weekday evening hours or on weekends. Some "flex" courses are being developed that combines online and in-person course work.

Assistantships
Paid graduate assistantships are often available. Information and application forms are available from the program office. Applications for academic year assistantships should be completed and returned to the PADM office no later than June 1 preceding the academic year for which the student is applying.

Applying for Admission
In order to apply for admission to the MPA program, one must fill out EWU’s graduate application form and send to the MPA office:
1. a current résumé; 2. a short career plan essay; and 3. one letter of recommendation.

The EWU Graduate Programs Office collects a $50 application fee. No additional fee is charged for application to the MPA program.

Application Deadlines
Priority consideration for admission will be given to applicants who meet the deadlines below. In order to meet the deadlines, 1. all of the application steps listed in the above paragraph must be completed, and 2. all admission requirements must be satisfied (including background requirements).

Priority Admission Deadlines
• fall quarter: May 1
• winter quarter: November 1
• spring quarter: February 1
• summer quarter: April 1

Admission Requirements
Based on the standards described below, students are admitted upon the recommendation of the director of PADM. The director’s recommendation will be sent to the Dean of Graduate Programs. That dean will then notify the student, in writing, of his/her admission or rejection. Applicants may seek admission on the basis of 1. their bachelor’s degree work, 2. completion of another master’s degree or 3. their work experience (if they can demonstrate a least 10 years of progressive responsibility in a related profession). Admission procedures and requirements are the same for the MPA degree and the Public Management Development Certificate programs.

Admission Based on Undergraduate Academic Performance
Students who have completed a bachelor’s degree at an appropriately accredited institution may be admitted to the Graduate Program in Public Administration based on the following criteria: (1) cumulative GPA ≥3.0 in the last 90 quarter graded credits of post-secondary coursework (or its equivalent as computed by the Graduate Programs Office); or (2) recommendation of the director based upon a successful appeal by the student. (This appeals process will be utilized only for students who do not have an undergraduate cumulative GPA of at least ≥3.00.)

Students seeking to utilize the appeals process for admission must directly request reconsideration by the director. In considering that request the director will review such information as:
1. a résumé;
2. letter of recommendation;
3. a combined verbal and quantitative score of 1000 and analytical writing score of 3 on the GRE, a GMAT score of at least 500 and/or 3, successful completion of up to 12 credits in PADM courses with a minimum GPA in those courses ≥3.30. After reviewing these new
data, the MPA Program Director may admit students under the 10% exception.

**Admission Based on Another Master’s Degree**
A student may also be admitted to PADM with proof of possession of another valid master’s degree.

**Admission Based on Work Experience**
Applicants with at least 10 years of increasingly responsible professional experience in public administration may also be offered regular admission. Admission is based on the following: 1. evidence of having obtained a bachelor’s degree from an appropriately accredited institution; 2. an essay demonstrating critical thinking skills; 3. a statement of intent demonstrating a level of knowledge and intellectual maturity appropriate to the proposed field of graduate study; 4. evidence of professional success in Public Administration. Upon admission a student will also need to provide evidence of having met the background requirements to enroll in PADM 501 and PADM 503 (see below).

**English Language Requirement**
All students from non-English speaking countries must provide evidence of adequate proficiency in the English language before being admitted to the PADM. This requirement may be satisfied by presenting a TOEFL score of 580 (237 CBT, 92 iBT) or its equivalent. A student with a TOEFL score of between 550 and 580 (213–233 CBT, 79–91 iBT) may be granted Provisional Acceptance. In such cases, registration for classes is conditional upon having a program of English language study approved by the director in consultation with the International Education office.

Students with TOEFL scores of 525 to 550, (197–213 CBT, 71–78 iBT, may be admitted to the university as post-baccalaureate students (i.e. Graduate Preparation). As post-baccalaureate students they may register for classes and demonstrate their ability to do the work required of MPA students. They should be aware of the EWU regulation on previous graduate credit which permits no more than 12 pre-admission credits to be counted toward a graduate degree (see the general policies on page 327). The director of PADM will determine whether they should be granted admission to the program based in part upon their work as post-baccalaureate students. Students with scores below the aforementioned ones may be provisionally admitted to the university as post-baccalaureate students. Students may take up to 12 pre-admission credits to be counted toward a graduate degree after graduate admission and with program approval, and must enroll in English Language Institute (ELI) until completion of Level 5.

**The Test Drive**
In the test drive applicants will be allowed to take up to 12 quarter credits with permission of the director while completing all admission requirements. The letters of recommendation and career plan summary are not required prior to enrolling in the first 12 credits of classes.

It will be necessary to complete the Application for Admission to a graduate program and submit it to the Graduate Programs Office with the appropriate fee. Documentation of completing a bachelor’s degree will also be required. The application should be signed by the MPA Program Director indicating provisional acceptance. In order to be admitted to the program, it is necessary to complete the background requirements (see below), so in addition to the 12 credits in MPA courses in the test drive, students will need to complete any background courses they have not already completed.

**Advancement to Candidacy**
Prior to completing 30 credit hours of coursework, a student is expected to file for advancement to candidacy. When the candidacy form is filed and accepted, it represents an official statement regarding what courses a student must complete to obtain the MPA degree. Filling out the form involves listing all courses completed, all in progress and all those yet to be taken to complete the courses required for the degree. It also involves identifying two PADM faculty members who will sit on the oral exam committee. The chair of the committee will be the advisor for the student’s research project or thesis. Students may indicate preferences for who serves as the chair and second member of the committee, but the final decision regarding which faculty members are on the committee will be made by the MPA program director.

**Comprehensive Examination**
Every student seeking a Master of Public Administration degree must take a comprehensive written examination.

The first step toward the comprehensive examination is filing for candidacy. When the student files for candidacy, he or she will designate the term and year in which the student anticipates taking the Comprehensive Examination and complete his or her MPA degree.

The second step is to complete all the designated core courses (except PADM 601 and PADM 602) in the MPA curriculum, and take all or a majority of their elective courses, such that after they finish PADM 601 MPA Capstone and PADM 602 MPA Portfolio, outlined below, they will have completed all of the degree requirements for the MPA degree.

The third step is to concurrently enroll in PADM 601 MPA Capstone and PADM 602 Portfolio during their final term in the MPA program. Both the Comprehensive Examination and the Portfolio will be examined by the MPA faculty.

The Comprehensive Examination will cover the following materials: 1. questions designed to test the student’s understanding and comprehension of relevant MPA knowledge-based competencies and knowledge in the Core Curriculum of the MPA program, and 2. at least one question designed to test the student’s ability to apply the MPA knowledge-base and competencies they have learned to a case-study situation drawn from actual administrative practice. Both PADM 601 and PADM 602 are graded on a pass/fail basis. Should it be necessary to schedule a retaking of the examination, the procedures shall be the same with the exceptions noted under Graduate Affairs Council policy 13.12. A copy of Graduate Affairs Council Policies is available for reading in the main Public Administration office, EWU, Phase One Classroom Bldg., 668 N. Riverpoint Blvd., #325.

**Cooperation with Other Graduate Programs**
With the permission of the MPA director, courses offered by other graduate programs may be counted toward the 20 credits elective requirement. Master’s degree programs that frequently offer courses considered appropriate as elective courses in the MPA program include: MURP (Planning), MPH (Public Health), MSW (Social Work), Master of Science in Communication Studies and MBA (Business Administration).

**Some of courses from the planning program that may be used as electives in the MPA program include:**
- PLAN 510 Community Facilities Planning (5)
- PLAN 530 Contemporary American Indian Planning (3)
- PLAN 540 Land Use Planning (5)
- PLAN 542 Sustainable Communities (3)
- PLAN 550 Emergent Community Health Challenges (4)
- PLAN 560 American Indian Planning Studio (3)
- PLAN 571 Environmental Review (3)
We also encourage MPA students with an interest in tribal governance to consider obtaining the Executive Tribal Planning Program certificate and counting those courses toward elective requirements in the MPA program.

The courses in the Executive Tribal Planning program include:
- PLAN 523 American Indian American Planning (4)
- PLAN 524 Advanced Strategic Planning (4)
- PLAN 528 American Indian Health and Community (4)
- PLAN 529 American Indian Health Care Systems and Services (4)
- PLAN 531 Census Data for American Indian Planning (2)
- PLAN 534 American Indian Transportation Planning (4)

Courses from the Masters in Public Health that MPA students may use as electives include:
- HLED 505 Trends and Issues in Public Health (4)
- HSAD 500 U.S. Healthcare Systems (4)
- HSAD 540 Health Policy (4)
- PLAN 511 Health Impact Assessment (2)
- PLAN 552 Comprehensive Community Health Planning (4)

Y Grades in PADM Courses
- Y grades are given for coursework that was not expected to be completed by the end of the quarter.

Y Grades in PADM Courses
- PADM 519 Public Service Learning (2 credits)
- PADM 525 Public Sector Grants-Writing and Administration (4 credits max)
- PADM 599 Directed/Independent Study (4 credits max)
- PADM 600 Thesis Research Seminar (8 credits max)
- PADM 601 MPA Capstone (2)
- PADM 602 MPA Portfolio (2 credits max)
- PADM 603 Internships in Public Administration (8 credits max)

Public Service Learning Field Experience (2 credits)
- Students in the MPA program are expected to evidence an interest in public service. The public service learning field experience requirement is designed to give course credit for field experience involving 100 hours of voluntary public service.
- Students who can provide documentary evidence of having engaged in 100 hours of voluntary public service prior to admission to the program may be allowed to substitute a 2 credit elective course for this requirement.

Internships (optional) (2–8 credits)
Although internships are not a required part of the MPA curriculum, they are strongly recommended for all MPA students who have not had significant public sector administrative experience. The internship is intended to provide a major professional learning experience for the student, including a realistic exposure to a complex organizational environment. The intern is expected both to contribute to the agency by helping to solve problems for the agency and to learn from and about the agency. Normally an internship should be arranged after finishing at least 30 credit hours of coursework in the program. The standard requirement for a 4 credit internship is 20 hours of work per week for one quarter. No more than 8 credits of internship may be counted toward graduation. Academic credit is obtained by registering for PADM 603. Documentation of the work experience is required.

Dual Degree Programs

MPA/MBA
A dual-degree program with the Eastern Washington University Master of Business Administration is available through which one can obtain both an MPA degree and an MBA degree. In this program of study, required courses for one degree program serve as elective courses in the second program, thereby reducing the number of credits required for each of the degrees. Any student interested in this dual degree must apply and be admitted to both the Master of Public Administration and the Master of Business Administration Programs. Individuals who have already started one of the two master’s programs can work toward the MPA/MBA by qualifying for admission to the other program. Students complete 73 hours of coursework in addition to those background courses which are prerequisite to either graduate degree program. The average progress requires about eight quarters of full-time study to complete both degrees. Interested parties should contact the PADM director and MBA director at EWU, Phase One Classroom Bldg., 668 N. Riverpoint Blvd., #325, 509.828.1248 or 509.828.1232. For information on the MBA program see Business Administration.

MPA/MSW
A dual-degree program with the Eastern Washington University Master of Social Work program is available through which one can obtain both an MPA degree and an MSW degree. In this program of study, required courses for one degree program serve as elective courses in the second program, thereby reducing the number of credits required for each of the degrees.

Any student interested in this dual degree must apply and be admitted to both the Master of Public Administration and the Master of Social Work Programs. Individuals who have already started one of the two master’s programs can work toward the MPA/MSW by qualifying for admission to the other program. The number of credits needed to graduate with the MPA/MSW dual degree is at least 118 for students in the two-year MSW program and 83 credits for students in the advanced standing MSW program. The dual-degree program can be completed in eight to nine full-time quarters by students in the two-year MSW program and in six quarters by students in the advanced standing program. Interested parties should contact the PADM director and MSW director in 203 Senior Hall, Cheney, Washington 99004-2431, 509.359.6485. For information on the MSW program see the Master of Social Work section.

MPA/MURP
A dual-degree program with the Eastern Washington University Master of Urban and Regional Planning Program is available through which one can obtain both an MPA degree and an MURP degree. In this program of study, required courses for one degree program serve as elective courses in the second program, thereby reducing the number of credits required for each of the degrees. Any student interested in this dual degree must apply and be admitted to both the Master of Public Administration and the Master of Urban and Regional Planning Programs. Individuals who have already started one of the two master’s programs can work toward the MPA/MURP by qualifying for admission to the other program.

Admitted students must complete 91–92 credits to earn both degrees. One comprehensive examination is required. The complete policy on the MPA/MURP is available in both program offices and in the Graduate Studies Office. Eight quarters of full-time study are typically needed to
complete both degrees. Interested parties should contact the PADM
director and MURP advisor, Department of Planning, EWU, Phase One
Classroom Bldg., 668 N. Riverpoint Blvd., #239, Spokane, WA 99202-1660
or at 509.828.1218.

Graduate Certificate
Regional Economic Policy Analysis
The Graduate Certificate in Regional Economic Policy Analysis offers
the opportunity to expand and enhance quantitative skills to analyze
policy issues such as the regional economic impact of proposed housing
projects, plant closures, or social program expansions. The focus of the
certificate is on the development of analytical methods of economics and
statistics; identification of appropriate statistical information for regional
analysis; application of tools, methodologies and techniques of policy
analysis; and the use of analytical tools and methods such as GIS, input-
output analysis, regression analysis and computer modeling.

The REPA Certificate is a 28 credit curriculum that can be a part of a
graduate program at EWU or a stand-alone certificate. All students must
complete the graduate admissions requirements.

Students in the certificate program should consult with their appropriate
advisor: the Planning and Public Administration Department Chair or the
Economics Department Chair.

Public Administration Advanced
Standing Program, Master of Public
Administration (MPA)
Persons who have completed all of the requirements for the
undergraduate Public Policy and Administration Certificate offered
through the Government Department and the Economics Department
of EWU’s College of Social & Behavioral Sciences and Social Work are
allowed to obtain the MPA Degree by meeting the following requirements.

Note: for specifics on the requirements for the undergraduate Public
Policy and Administration Certificate, see the description in this
catalog under the Economics Department or the Political Science and
International Studies Department.

Required Core
PADM 500 PERSONAL ASSESSMENT 1
PADM 501 PUBLIC ADMINISTRATION RESEARCH APPROACHES 4
PADM 503 CONCEPTS AND VALUES PUBLIC SERVICE 4
PADM 505 PUBLIC POLICY CYCLES 4
PADM 509 PUBLIC PERSONNEL MANAGEMENT 4
PADM 511 PUBLIC SECTOR ORGANIZATION THEORY AND DYNAMICS 4
PADM 513 PUBLIC PLANNING AND BUDGETING 4
PADM 515 ADMINISTRATIVE LAW AND REGULATION 4
PADM 517 PROFESSIONAL EMPLOYMENT 1
PADM 519 PUBLIC SERVICE LEARNING 2
PADM 601 MPA CAPSTONE 2
PADM 602 MPA PORTFOLIO 2

Required Elective Options—courses that may be taken toward
include, but are not limited to the following.

MPA Elective Courses—in any of the courses acceptable as electives in the MPA Program.

Note: elective courses acceptable for the MPA program should not be
below the 400 level.

Total Credits 46

Student Learning Outcomes—students will
• demonstrate an ability to develop professionally through reflective
analysis of employment and educational experiences;
• articulate and apply a philosophy of public service administration
practice;
• lead and manage in public governance;
• participate in and contribute to the public policy process;
• analyze, synthesize, think critically, solve problems and make
decisions;
• communicate effectively and interact productively with a diverse and
changing workforce and citizenry.

Public Administration, Master of
Public Administration (MPA)
Note: PADM 500, PADM 501 and PADM 503 should be taken the 1st or
2nd quarter in the program.

Required Core
PADM 500 PERSONAL ASSESSMENT 1
PADM 501 PUBLIC ADMINISTRATION RESEARCH APPROACHES 4
PADM 503 CONCEPTS AND VALUES PUBLIC SERVICE 4
PADM 505 PUBLIC POLICY CYCLES 4
PADM 507 PUBLIC POLICY ANALYSIS 4
PADM 509 PUBLIC PERSONNEL MANAGEMENT 4
PADM 511 PUBLIC SECTOR ORGANIZATION THEORY AND DYNAMICS 4
PADM 513 PUBLIC PLANNING AND BUDGETING 4
PADM 515 ADMINISTRATIVE LAW AND REGULATION 4
PADM 517 PROFESSIONAL EMPLOYMENT 1
PADM 519 PUBLIC SERVICE LEARNING 2
PADM 601 MPA CAPSTONE 2
PADM 602 MPA PORTFOLIO 2

Required Elective Options—courses that may be taken toward
include, but are not limited to the following.

HSAD 598 SEMINAR IN HEALTH SERV ADMIN
PADM 523 PUBLIC FINANCIAL MANAGEMENT
PADM 525 PUBLIC SECTOR GRANTS-WRITING AND ADMINISTRATION
PADM 527 CAPITAL FINANCE AND BONDS
PADM 531 INTERGOVERNMENTAL RELATIONS
PADM 533 CITY GOVERNMENT ADMINISTRATION
PADM 539 SPECIAL TOPICS
PADM 543 LABOR RELATIONS
PADM 545 COLLECTIVE BARGAINING
PADM 547 HIRING RIGHT
PADM 551 COMPARATIVE PUBLIC ADMIN
PADM 553 CONSTITUTION AND PUBLIC ADMINISTRATION
PADM 555 THE POLITICAL EXECUTIVE
Public Management Development Certificate

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PADM 561</td>
<td>PUBLIC ADMINISTRATION THROUGH FILM AND TELEVISION</td>
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<tr>
<td>PADM 563</td>
<td>PUBLIC SECTOR ETHICS</td>
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<tr>
<td>PADM 596</td>
<td>EXPERIMENTAL COURSE</td>
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<td>PADM 599</td>
<td>INDEPENDENT STUDY</td>
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<td>PADM 600</td>
<td>THESIS RESEARCH SEMINAR</td>
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<tr>
<td>PADM 603</td>
<td>INTERNSHIP IN PUBLIC ADMINISTRATION</td>
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Total Credits 60

Student Learning Outcomes—students will

- demonstrate an ability to develop professionally through reflective analysis of employment and educational experiences;
- articulate and apply a philosophy of public service administration practice;
- lead and manage in public governance;
- participate in and contribute to the public policy process;
- analyze, synthesize, think critically, solve problems and make decisions;
- communicate effectively and interact productively with a diverse and changing workforce and citizenry.

Public Management Development Certificate

The Public Management Development Certificate Program is available to students who are interested in engaging in study in public administration but not in commitment to an entire MPA program. Both a basic certificate (16 credits) and an advanced certificate (36 credits) are available. Course offerings within the basic program provide an introduction to the concepts and skills associated with public sector administrative responsibilities. The advanced certificate program permits further development in the fundamentals of public sector management. Admission to the certificate program is upon the same basis as is admission to the MPA program.

Notes:

- admission to the certificate program is upon the same basis as is admission to the MPA program;
- available to students who are interested in engaging in study in public administration but not in commitment to an entire MPA program.

Choose the basic or advanced certificate 16-36

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<th>Certificate</th>
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<td>Basic</td>
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<td>Advanced</td>
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Total Credits 16-36
COLLEGE OF HEALTH SCIENCE AND PUBLIC HEALTH

Departments, programs and degrees are listed on the navigation bar.
CHSPH home page (http://www.ewu.edu/chsp)
Communication Sciences and Disorders

Introduction
Lesli Cleveland, PhD, CCC-SLP, Chair
department page (http://www.ewu.edu/chsph/programs/communication-disorders)
509.828.1376
310 N. Riverpoint Blvd., Box B Spokane, WA 99202

Professionals practicing in Communication Sciences and Disorders are concerned with impairments and disabilities of speech, language, cognition-communication, voice and swallowing as well as hearing processes and disorders. A certified speech-language pathologist (SLP) is qualified to assess as well as plan and implement intervention programs for these disorders. A certified audiologist is qualified to provide diagnostic hearing assessment and rehabilitative services for individuals who are deaf or hard of hearing. Audiologists also work with auditory processing problems and dysfunctions related to balance.

The department has a strong clinical orientation that addresses the medical, developmental and educational issues that impact being a competent speech-language pathologist. The general goal (through the master’s degree) is to provide a sound academic background and to complement that instruction with clinical knowledge and experience sufficient to equip the student to provide professional services to individuals across a spectrum of communication disorders in a variety of employment settings. The baccalaureate degree is considered pre-professional. The master’s degree is required for licensure at the state and certification at the national level. Upon earning the master’s degree employment opportunities may include schools, clinics, hospitals, private practice and community agencies. However, the majority of the positions are in the public schools. The employment outlook for graduates remains excellent. It should be noted that Communication Sciences and Disorders is a speech-language pathology program only. To meet the requirements to become an audiologist, the student must earn a minimum of a clinical doctorate degree in audiology from an accredited program.

The Department of Communication Sciences and Disorders is located at the Health Sciences Building (HSB) on the EWU Spokane Campus. Clinical practica are conducted at the University Programs in Communication Disorders (UPCD) Hearing and Speech Clinic on the EWU Spokane Campus and in numerous off-campus sites in the area. All programs (undergraduate and graduate) are on a semester schedule.

The undergraduate Communication Sciences and Disorders program is designed to begin in the junior year following completion of university general education requirements (GECRs). Upon earning the bachelor’s degree, the student would then apply for graduate study. Individuals earning a bachelor’s degree in another field can prepare for graduate training in communication disorders by first completing a post-baccalaureate year of selected junior and senior level courses in the department (see the separate section in this catalog entitled Pre-Professional Programs). Supervised clinical practicum is reserved for the graduate level.

Time to Completion of the Program
Most students complete the graduate curriculum in Communication Sciences and Disorders within five (5) semesters (i.e., fall, spring, summer, fall, spring). Some students may not complete the program within five semesters; these individuals typically have unfinished research and/or clinical practicum requirements that cause them to not complete the program within the typical time frame. If accepted for graduate study, students who enter the program with bachelor’s degrees outside the discipline can expect to complete their studies within seven (7) semesters (one year or two semesters of post-baccalaureate study and five semesters of graduate study).

Program Accreditation and Professional Certification Information
The graduate program in speech-language pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA). The current period of accreditation is September 1, 2011 through August 31, 2019. Please check with the department website for further information. Additional information related to accreditation (e.g., complaint procedures, graduate employment rates, national exam pass rates, program completion rates, student assistance plan, etc.) can be found on the department’s website (http://www.ewu.edu/chsph/programs/communication-disorders). Completion of the undergraduate curriculum and the Master of Science degree will allow the student to satisfy most of the requirements for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) issued by the American Speech-Language-Hearing Association (ASHA). The student must also pass a national examination and successfully complete a Speech-Language Pathology Clinical Fellowship (SLPCF) as prerequisites for earning the CCC-SLP.

Faculty
Lesli H. Cleveland, Donald R. Fuller, Roberta A. Jackson, Doreen A. Nicholas, Barbara M. Peregoy, Jane T. Pimentel, Elizabeth Wilson-Fowler.

Undergraduate Degrees
Bachelor of Arts (BA)

• Communication Sciences and Disorders (p. 210)

Undergraduate Programs
Admission Information for High School Students
No specific courses are required. High school students may find it useful to take computer coursework, four years of English and any available speech, behavioral science and natural science courses.

General Admissions Requirements for Undergraduate Students
A minimum GPA ≥2.75 is required for admission to and retention in the undergraduate program. Students wishing to major in communication sciences and disorders must meet and maintain the minimum GPA requirement, complete a department application form and pay an application fee.

Admissions Information for Pre-Major Students
Freshman and sophomore students must complete their GECRs, university competencies and courses offered by other departments in support of the major prior to enrollment in the required Communication Sciences and Disorders courses within the major. In addition, students must complete coursework reflecting knowledge in the biological sciences, physical sciences, statistics and the social/behavioral sciences prior to beginning the program. Acceptable courses in biological sciences should emphasize a content area related to human or animal sciences. Acceptable courses in physical sciences should include physics or chemistry. Acceptable courses in social/behavioral sciences should include psychology, sociology, anthropology, gerontology or public health. Research methodology courses in communication sciences and
disorders (CSD) may not be used to satisfy the statistics requirement. Entering the program prepared is imperative as the Communication Sciences and Disorders undergraduate program is on a semester schedule while the majority of the university is on a quarter schedule.

**Admissions Information for Transfer Students**

Transfer students must satisfy the GECRs and university competencies with equivalent coursework. The transfer student must demonstrate knowledge of the biological sciences, physical sciences, statistics and the social/behavioral sciences. Acceptable courses in biological sciences should emphasize a content area related to human or animal sciences. Acceptable courses in physical sciences should include physics or chemistry. Acceptable courses in social/behavioral sciences should include psychology, sociology, anthropology or public health.

EWU participates in transfer agreements with community colleges in Washington state and select Idaho and Montana community colleges. Graduates of these colleges who complete a direct-transfer associate degree are admitted to Eastern with junior standing and will have satisfied Eastern's lower division general education requirements. In addition, to earn a Bachelor's degree from EWU, students will need to have taken one course in International Studies and one course in Culture/Gender (see University Graduation Requirements in catalog). If there are any questions or concerns the student should consult with Communication Sciences and Disorders faculty to plan their program.

**Foreign Language Requirement for Communication Sciences and Disorders**

A foreign language is required by Eastern Washington University for a Bachelor of Arts (BA) degree. To fulfill this requirement, two years of a single foreign language in high school or one year of a single foreign language at the college level is required. American Sign Language (ASL 376, ASL 377 and ASL 378) is an excellent foreign language option for an individual majoring in Communication Sciences and Disorders. It should be noted that ASL courses are taught on a quarter academic schedule so these courses should be taken prior to declaring Communication Sciences and Disorders as a major.

**Policy Regarding Student Progress within the Major**

In addition to maintaining an overall cumulative grade point average ≥2.75 to be retained in the program and to graduate with the BA degree, the student must earn a grade ≥1.7 or better in each of the courses within the major. Earning a grade <1.7 for any given course will require that the student repeat the course. If the course is a prerequisite for a higher-level course, the student will not be allowed to enroll in the higher-level course until a grade ≥1.7 or better has been earned in the prerequisite course. If a student’s cumulative GPA falls below a 2.75, the student is placed on academic probation and has one semester to raise their GPA to ≥2.75 or they will be dismissed from the program. Additionally, ASHA requires that the program regularly assess each student’s progress toward meeting knowledge and skills outcomes (KASA). Each course in the major has its own assessment plan with a built-in academic assistance plan for students who experience difficulty in the course. The program’s Student Assistance Plan can be found on the department’s website (http://www.ewu.edu/chsph/programs/communication-disorders).

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

**Graduate Degrees**

**Master of Science (MS)**

Communication Disorders (p. 211)

The Master of Science degree is designed to equip the student with the academic and clinical skills required to function as a competent professional in the field of communication sciences and disorders. The master’s graduate is qualified to provide clinical services to a wide range of communication disordered children and adults in a variety of professional settings. Upon completion of the graduate program, the student will have met all requirements for the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) with the exception of the Speech-Language Pathology Clinical Fellowship (SLPCF). The student must also pass a national examination in speech-language pathology; most students take and pass the exam prior to earning the master’s degree.

The graduate curriculum includes exposure to science and research areas as well as to clinical disorders and related practice. The graduate curriculum is part of a cooperative program between Eastern Washington University and Washington State University—Spokane, and is known as the University Programs in Communication Disorders (UPCD). The UPCD is housed in the Health Sciences Building on the Spokane campus. The undergraduate and graduate curricula are administered on a semester academic schedule.

**Admission Requirements/Preparation**

Admission to the master’s program includes the requirements of the graduate school as well as the GRE general and writing tests, letters of recommendation, a statement from the applicant outlining professional interests and intent and an application fee. The program utilizes a central application system. Application and the supporting materials are to be submitted to the CSDCAS program (http://www.csdcas.org), a separate application is to be submitted to the EWU graduate program office. All application materials must be received by January 15 prior to the fall academic term of enrollment. Students entering the program must have completed an undergraduate major in communication sciences and disorders. Students with an undergraduate major in any other field must complete a post-baccalaureate year of required communication disorders courses prior to applying to the graduate program (see the separate section of this catalog entitled Pre-Professional Programs). In addition, students need to take an introductory statistics course prior to graduate school, as it is a requirement for professional certification.

Course selections made by the student and a departmental faculty advisor can be individually tailored to the student’s professional goals. Course selection is guided by the knowledge and skills outcomes of the certification standards for the CCC-SLP as set forth by the American Speech-Language-Hearing Association (ASHA).

According to current ASHA certification standards, it is expected that candidates for the master’s degree will have accumulated a minimum of 400 clock hours of clinical practicum with 25 hours spent in observation and 375 hours spent in direct client/patient contact. At least 325 of the 400 hours must be completed at the graduate level. This is accomplished by completing clinical practicum experiences (CMSD 561S CMSD 562S, and/or CMSD 563S) and taking one required semester of CMSD 697S. Completion of the Master’s degree and clinical experience qualifies the student for Washington state licensure in Speech-Language Pathology and makes that individual eligible for the CCC-SLP upon completion of
the SLPCF and upon passing the national examination (referred to as the PRAXIS exam).

Students who intend to be employed in the public schools of this state must meet Washington state educational certification requirements, which include 3 semester credits of coursework and a Clinical Field Experience in the schools.

Research Requirement and Its Defense
All graduate students must complete a research project of some type (i.e., either thesis or non-thesis). The selection of research option is accomplished during the first semester of graduate study in CMSD 520S. Selection of a research advisor also takes place while the student is enrolled in this course. Only those students who show excellent aptitude in research and scientific writing are given the thesis option. A thesis is intended to be an empirical study that is formal and rigorous. The non-thesis option includes any type of research (e.g., case study, empirical study, survey, etc.) deemed appropriate by the student’s research advisor.

The fall semester of the first year of study is used to develop a research idea while enrolled in CMSD 520S. During the spring semester of the first year of study, the student and research advisor further refine the research idea and submit the proper paperwork to the Institutional Review Board, if required. The fall and spring semesters of the second year of study are used to complete and defend the research. Students who have been granted permission to conduct a thesis will enroll in 2 semester credits of CMSD 600S during the spring semester of their first year of study, and 2 semester credits of CMSD 600S during each of the fall and spring semesters of their second year of study, for a total of 6 semester credits of research. Students who conduct a non-thesis research project will enroll in CMSD 620S 2 semester credits during the spring semester of the first year of study, CMSD 621S 2 semester credits during the fall semester and CMSD 622S 2 semester credits during the spring semester of their second year of study, for a total of 6 semester credits of research.

Two faculty members from the combined UPCD faculty form the student’s research committee (the chair of the committee is the student’s research advisor). The research advisor should be an EWU faculty member who holds graduate faculty status. The second committee member may be either an EWU or WSU faculty member. The third member for the research defense may be selected by the department or the student and must be approved by the student’s committee chair (see Graduate Programs Academic Policies for more information).

Toward the end of their graduate program, students orally defend their research project in the presence of their committee members and other interested parties. Students who complete a thesis will make a formal presentation in front of an audience and will entertain questions from their committee members and other interested parties. Students who complete a non-thesis project will develop a poster that will be put on display. Students will stand by their posters and entertain questions from their committee members and other interested parties. The research defense will take place during a designated Research Day that will typically take place during the latter half of the spring semester each year. In some instances, two or more Research Days may be designated; the student will only have to defend his or her research at one of these scheduled Research Days.

At the defense, the student’s research committee makes a decision as to whether or not the research project is successfully completed. If the research project is judged as not being successfully completed, the committee indicates what additional work must be accomplished and whether another defense will be necessary. If the research project is judged as complete and satisfactorily defended, a grade is assigned to the thesis or non-thesis research project.

Policy Regarding Student Progress
In addition to maintaining an overall cumulative grade point average ≥3.00 to be retained in the program and to graduate with the MS degree, the student must earn a grade ≥2.7 or better in each of the graduate courses taken (exclusive of practicum courses). Earning a grade <2.7 for any given course will require that the student repeat the course. If the course is a prerequisite for a higher-level course, the student will not be allowed to enroll in the higher-level course until a grade ≥2.7 has been earned in the prerequisite course. Additionally, ASHA requires that the program regularly assess each student’s progress toward meeting knowledge and skills outcomes (KASA). Each graduate course has its own assessment plan with a built-in academic assistance plan for students who experience difficulty in the course. The program’s Student Assistance Plan can be found on the department’s website (http://www.ewu.edu/chsph/programs/communication-disorders).

Communication Disorders Major, Bachelor of Arts (BA)

Notes:
- two years of a single high school foreign language or one year of a single college level foreign language is required;
- courses offered on a semester schedule.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 301S</td>
<td>INTRODUCTION TO SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 304S</td>
<td>PHONETICS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 320S</td>
<td>SPEECH AND HEARING SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 321S</td>
<td>ANATOMY AND PHYSIOLOGY OF SPEECH PRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 331S</td>
<td>LANGUAGE DEVELOPMENT</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 357S</td>
<td>LANGUAGE IMPAIRMENT</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 358S</td>
<td>SPEECH SOUND DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 371S</td>
<td>HEARING AND HEARING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 372S</td>
<td>AUDIOMETRY</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 422S</td>
<td>NEUROANATOMY</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 441S</td>
<td>ASSESSMENT OF SPEECH AND LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 450S</td>
<td>LANGUAGE AND LITERACY</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 451S</td>
<td>NEUROGENIC COMMUNICATION DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 461S</td>
<td>CLINICAL METHODS</td>
<td>2</td>
</tr>
<tr>
<td>CMSD 473S</td>
<td>AURAL REHABILITATION</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 480S</td>
<td>INTRODUCTION TO RESEARCH IN COMMUNICATION DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 490S</td>
<td>SENIOR CAPSTONE: PROFESSIONAL ISSUES IN COMMUNICATION DISORDERS</td>
<td>3</td>
</tr>
</tbody>
</table>

Rotating Required Course—the student must take at least one of the following courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 442S</td>
<td>INTERVENTION FOR SPEECH AND LANGUAGE DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 455S</td>
<td>VOICE AND RESONANCE DISORDERS</td>
<td></td>
</tr>
<tr>
<td>CMSD 456S</td>
<td>FLUENCY DISORDERS</td>
<td></td>
</tr>
<tr>
<td>CMSD 498S</td>
<td>SEMINAR</td>
<td></td>
</tr>
</tbody>
</table>
Required Supporting Courses—students majoring in CMSD must complete coursework in public speaking, biological sciences, physical sciences, statistics and the social/behavioral sciences. These courses should be taken prior to entering the CMSD major.

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- apply foundational principles for assessment and intervention of disorders of hearing, speech, language and swallowing;
- recall and relate the causes, characteristics and consequences of the disorders of hearing, speech, language and swallowing;
- compare the content and sequence of the development of speech and language in children from birth through school-age;
- describe the anatomical, physiological and psychological properties involved in the normal communication processes of hearing, speech, language and swallowing;
- demonstrate knowledge of the physics of sound and the measurement of its dimensions, and be able to apply basic principles of acoustics to human hearing and speech;
- illustrate insight into the communication disorders profession by participating in service learning opportunities.

Communication Disorders, Master of Science (MS)

Graduate Program
Robert Jackson, Graduate Program Coordinator
310 N. Riverpoint Blvd., Box V, Spokane, WA 99202
509.828.1326

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 520S</td>
<td>RESEARCH METHODS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 538S</td>
<td>PHONOLOGICAL ACQUISITION AND BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 542S</td>
<td>INFANT AND TODDLER COMMUNICATION AND LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 543S</td>
<td>SCHOOL-AGE AND ADOLESCENT LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 547S</td>
<td>AUGMENTATIVE COMMUNICATION</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 552S</td>
<td>NEUROPATHOLOGIES OF LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 554S</td>
<td>MOTOR SPEECH DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 555S</td>
<td>BILINGUAL AND CULTURAL ISSUES</td>
<td>2</td>
</tr>
<tr>
<td>CMSD 559S</td>
<td>DYSPHAGIA</td>
<td>3</td>
</tr>
<tr>
<td>CMSD 568S</td>
<td>ADVANCED ASSESSMENT: PRINCIPLES AND PROCEDURES</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives

To be determined in consultation with the graduate advisor. All 500-level courses must serve as electives. A minimum of 6 credits must be from courses within the department.

Practicum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 561S</td>
<td>CLINICAL PRACTICUM</td>
</tr>
<tr>
<td>CMSD 562S</td>
<td>ADVANCED CLINICAL PRACTICUM</td>
</tr>
<tr>
<td>CMSD 697S</td>
<td>CLINICAL FIELD EXPERIENCE</td>
</tr>
</tbody>
</table>

Typically, students will be expected to enroll for at least 2 credits of practicum per semester.

Students are required to complete at least one internship; those wishing to take additional internships may exercise the variable credit option.

Choose one of the following options

Non-Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 620S</td>
<td>RESEARCH IN COMMUNICATION DISORDERS I</td>
</tr>
<tr>
<td>CMSD 621S</td>
<td>RESEARCH IN COMMUNICATION DISORDERS II</td>
</tr>
<tr>
<td>CMSD 622S</td>
<td>RESEARCH IN COMMUNICATION DISORDERS III</td>
</tr>
</tbody>
</table>

Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSD 600S</td>
<td>THESIS (variable credit course-minimum 6 credits)</td>
</tr>
</tbody>
</table>

Student Learning Outcomes—students will

- demonstrate application of research in the discipline of communication disorders;
- use the products of technology in both scholarship and clinical applications;
- write and speak clearly and effectively;
- critically evaluate and utilize new information in the discipline of communication disorders;
- demonstrate through discussion and application in class and clinic the principles, processes and procedures for the prevention, identification, evaluation, intervention and management of communication disorders;
- demonstrate knowledge through adherence to the Code of Ethics of the American Speech-Language-Hearing Association in academic and clinical work.
Dental Hygiene

Ann O’Kelley Wetmore, RDH, MSDH Chairperson
department webpage (https://www.ewu.edu/chsph/programs/dental-
hygiene)
Health Sciences Bld., 310 N. Riverpoint Blvd. Box E
509.828.1300

Faculty
Lisa A. Bilich, Arthur C. DiMarco, Jennifer Evans, Sarah C. Jackson, Merri
L. Jones, Charles Regalado, Windy Rothmund, Lorie Speer, Rebecca G.
Stolberg, Ann O’Kelley-Wetmore

Undergraduate Degrees
Bachelor of Science (BS)
• Dental Hygiene (p. 212)
• Dental Hygiene (BSDH (p. 214)) On-line Degree Completion
  (p. 214)

Department Mission and Goals
The Department of Dental Hygiene functions within the university setting
and offers a Bachelor of Science Degree in Dental Hygiene that combines
a strong liberal arts background with a professional education.

Mission
The department’s mission is to educate baccalaureate dental
hygienists to assume positions of responsibility in multiple settings. The faculty of the department are committed to creating a quality
educational environment that facilitates the development of responsible professionals who function effectively in a constantly changing society.

Department Goals for Dental Hygiene
The following goals direct the design, purpose and philosophy of the
Eastern Washington University Department of Dental Hygiene.

• The Department of Dental Hygiene will provide all students the skills
  necessary to function in a constantly changing society, an obligation
  of Washington’s only Bachelor of Science in Dental Hygiene program.
• Dental Hygiene faculty are supported throughout their careers;
• Dental Hygiene students, faculty and staff impact the university, the
  region and the world.
• The Department of Dental Hygiene will grow resources to enhance the
dental hygiene academic quality.

Graduate Degrees
Master of Science (MS)
• Dental Hygiene (p. 215)

MSDH Mission and Goals
Mission
The mission of the Master of Science Degree in Dental Hygiene program
is to educate and graduate dental hygienists who are technically,
intellectually, and ethically prepared to use critical thinking skills,
exemplify life-long learning, employ evidence based decision making, and
model cultural sensitivity as community leaders, outstanding citizens,
and health care professionals.

This program encourages the perpetual self-learning capacity to live up
to one’s full potential and to contribute to making our community, our
profession and our world a better place to live.

Program Goals
1. To graduate educationally competent, culturally sensitive, and
  ethically sound dental hygienists who promote oral and general
  health and wellness to the public and other health care practitioners.
2. To provide a quality educational program that meets the needs of the
  students, is sensitive to the changing needs of dentistry and follows
  the guidelines of the educational community.
3. To graduate dental hygienists who initiate and assume responsibility
  for health promotion and disease prevention for diverse populations
  in a variety of settings, and who appreciate interprofessional
  collaboration.
4. To graduate dental hygienists who possess transferable skills in
  communication, problem solving, and critical thinking, in order to
  encourage and take advantage of opportunities for professional
  growth and development in themselves, their profession and others.
5. To offer a graduate degree program that is sufficient in scope and
  depth to provide a high quality professional education for dental
  hygienists that fosters the ability to adapt to the future, to
  provide leadership in dental hygiene, to practice as an ADHP (if
  the opportunity exists), and to accept the challenge of doctorate
  level education.
6. To enhance the body of knowledge for the profession of dental
  hygiene through support of faculty translational research programs
  that contribute to the art and science of dental hygiene, to dental
  hygiene practice, and the improvement of oral health delivery
  systems.

Philosophy
The philosophy of the MSDH program is one of commitment to the
education and development of oral health professionals who go beyond
academic excellence, who are productive, self-sufficient citizens of
society, who are responsive to the global community, and who maintain
high ethical standards in their personal and professional lives. In order
to achieve these goals, our faculty embodies excellence in academic
endeavors, professional development in teaching theory and pedagogy,
knowledge of scientific advancements in dental care and advanced
clinical skills. Our goal is to produce graduates who are prepared to meet
the current and future health care demands of the global community.

Dental Hygiene Major, Bachelor of Science (BS)

Undergraduate Program Entry-level Bachelor of Science
in Dental Hygiene
The Dental Hygiene program is fully accredited by the Commission on
Dental Accreditation of the American Dental Association. It is the only
traditional Bachelor of Science in Dental Hygiene program in Washington
state. Completion of the dental hygiene curriculum requires a minimum
of four full academic years of study. The first two years focus on a
broad spectrum of courses, including: university general education core
requirements, competencies, and proficiencies, as well as dental hygiene
prerequisite basic science courses that prepare students for the dental
hygiene major. Once admitted to the program, students combine previous
knowledge from general education courses and basic science courses into dental hygiene lecture and clinical coursework over a two-year period that includes five semesters. This two-year professional segment includes emphasis on dental sciences, community dental health, health research theory and clinical practice in traditional and expanded functions. Students treat dental patients under direct faculty supervision at the 46-chair Dental Hygiene clinic on the EWU Spokane campus and the Veterans’ Administration Medical Center, Unify Community Health Clinic, and Lake Spokane Community Clinic. While in the program, dental hygiene students are required to participate as operators and patients for each other, to deliver and receive injections of local anesthetic, and administer/receive nitrous oxide sedation for dental hygiene learning experiences. These activities are essential components of the dental hygiene curriculum.

Placement Record for EWU Dental Hygiene Graduates
Dental hygiene graduates are eligible to take national, regional, and state licensing examinations. Successful completion of the examinations enable baccalaureate dental hygienists to seek employment in private dental practices, health clinics, school programs, public health programs, hospitals, nursing homes, industrial clinics, college dental hygiene programs, corporations, and research. EWU dental hygiene graduates have a good placement record in Spokane and nationwide.

General Admissions Requirements for Dental Hygiene Program
Students interested in majoring in dental hygiene should request current information on application procedures and seek advising from the Dental Hygiene Department early in their university program. All students are urged to maintain contact with the Dental Hygiene Department advisors during their prerequisite year(s) because admission criteria are revised periodically. Since enrollment is limited and the admission process is competitive, no assurance can be given that all applicants admitted to the university and successfully completing the prerequisite coursework will be admitted to the Department of Dental Hygiene. Access the Dental Hygiene Department website (http://www.ewu.edu/chsph/programs/dental-hygiene) for current information on prerequisite coursework and application procedures for admission to the program.

Prior to acceptance into the Dental Hygiene Program all students must

- complete all required Dental Hygiene program admission prerequisite courses and dental hygiene program admission requirements.
- apply for admission to EWU and pay admission fees.
- pay a $42.00 student department application fee in addition to other EWU admission fees.
- meet the essential functions required of a dental hygienist.
- be able to treat all patients assigned realizing the potential exists for transmission of bloodborne and other infectious diseases during patient care services.
- submit proof of a two-step TB skin test prior to the fall entry into the program.
- hold a current Health Care Provider CPR Certification.
- pass a state and federal background check; prior criminal convictions may prohibit a graduate from obtaining a license to practice dental hygiene.
- seek advice from a medical professional specializing in allergies if they suspect they may have a latex allergy.
- have current immunizations records for mumps, measles, rubella, diphtheria, tetanus, and varicella; NO EXCEPTIONS.

Admissions Requirements for Transfer Students
Students transferring from either four-year institutions or community colleges must first apply for admission to the university through the EWU Admissions Office, that evaluates transfer coursework and, upon request, send a copy of the transcript evaluation to the Dental Hygiene Program.

Once admitted to EWU, transfer students should contact the Department of Dental Hygiene and arrange to meet with a department advisor for curricular planning and to declare a pre-dental hygiene major.

Applications to the Department of Dental Hygiene are nor processed until students have been formally admitted to the university and a copy of their transcript evaluation has been sent from Admissions to the Department of Dental Hygiene.

Attention High School Students
Those students interested in dental hygiene should complete one year of high school chemistry, biology and algebra.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Required Prerequisites prior to admission to Dental Hygiene—quarter system

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 232</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
</tr>
<tr>
<td>BIOL 233</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
</tr>
<tr>
<td>BIOL 234</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
</tr>
<tr>
<td>BIOL 235</td>
<td>ELEMENTARY MEDICAL MICROBIOLOG</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>GENERAL CHEMISTRY FOR THE HEALTH SCIENCES</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>ORGANIC CHEMISTRY FOR THE HEALTH SCIENCES</td>
</tr>
<tr>
<td>CHEM 163</td>
<td>BIOCHEMISTRY FOR THE HEALTH SCIENCES</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>COLLEGE COMPOSITION: EXPOSITION AND ARGUMENTATION</td>
</tr>
<tr>
<td>FNDT 356</td>
<td>NUTRITION</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>GENERAL PSYCHOLOGY</td>
</tr>
</tbody>
</table>

Choose one course from the following

- CMST 200 INTRODUCTION TO SPEECH COMMUNICATION
- CMST 210 INTERPERSONAL COMMUNICATION
- CMST 250 SMALL GROUP COMMUNICATION
- CMST 312 NONVERBAL COMMUNICATION
- CMST 331 INTERVIEWING
- CMST 340 INTERCULTURAL COMMUNICATION
- CMST 440 GLOBAL COMMUNICATION

Total Credits 54

Major Requirements for Dental Hygiene

Year One—fall semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNHY 300S</td>
<td>HEAD AND NECK ANATOMY</td>
</tr>
<tr>
<td>DNHY 301S</td>
<td>DENTAL ANATOMY</td>
</tr>
<tr>
<td>DNHY 302S</td>
<td>HISTOLOGY AND EMBRYOLOGY</td>
</tr>
<tr>
<td>DNHY 310S</td>
<td>RADIOLGY</td>
</tr>
<tr>
<td>DNHY 330S</td>
<td>PRE-CLINIC</td>
</tr>
</tbody>
</table>
Program Mission and Goals

Mission

The mission of the Bachelor of Science in Dental Hygiene (BSDH) online degree completion program is to enhance the educational experiences of dental hygienists who graduated with an associate degree. This is accomplished by providing a liberal arts and broad-based general education component that includes critical thinking, research, writing, cultural sensitivity, and ethical judgment. Graduates of this program gain practical experience intrinsic to the various expanded roles and scopes of practice in the profession of dental hygiene. The BSDH program prepares students to interact effectively with other health professionals in a competent, collaborative, and ethical manner.

BSDH Degree Completion Program Goals

The following goals direct the design, purpose and philosophy of the EWU BSDH degree completion program.

1. Compel individuals who possess moral and ethical values/behaviors to be effective participants in an increasingly complex and interdisciplinary health care system.
2. Foster dental hygienists who are culturally sensitive and possess a strong theoretical base in the humanities, psychosocial sciences, and dental sciences.
3. Encourage dental hygienists to be life-long learners who critically think, analyze and solve problems, make sound judgments, and lead others to do the same.
4. Cultivate the communication and leadership skills of dental hygienists to enhance their functional role of practitioner as well as the expanded roles of researcher, manager, change agent, consumer advocate, and health promoter/educator.
5. Instill a commitment to contribute actively to the betterment of the dental hygiene profession through professional involvement, continued education, and advanced professional or graduate education.

BSDH Degree Completion Program

BSDH degree completion opportunities are for licensed dental hygienists who desire a baccalaureate degree and have associate degrees from two-year community colleges accredited by the Commission on Dental Accreditation and regional higher education accrediting bodies. EWU accepts a maximum block transfer of 74 quarter credits from an Associate in Applied Science dental hygiene degree program accredited by the Commission on Dental Accreditation and regional higher education accrediting bodies. In addition, to fulfill the EWU requirements for the EWU BS in Dental Hygiene, students must complete the required Dental Hygiene courses including Cornerstone and Capstone (40 semester credits/60 quarter credits) and any other degree requirements, as identified by a program advisor after transcript evaluation. All courses are taught via Canvas, an online Learning Management System that allows students to submit assignments, contact the course instructor, collaborate with fellow students, participate in discussions, and even videoconference from virtually anywhere.

General Admission Requirements for the Online BSDH Degree Completion Program.

- Associate degree from an accredited dental hygiene program in the U.S. or Canada
- Successful completion of the Dental Hygiene National Board examination or its Canadian equivalent
- A current dental hygiene license in the U.S. or Canada
Transcripts and inquiries should be directed to Ann O’Kelley Wetmore, director of the BSDH degree completion program or Emilie Crawford, Program Specialist at the Dental Hygiene (https://www.ewu.edu/chsph/programs/dental-hygiene) department web page.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNHY 467S</td>
<td>CAREER STRATEGIES</td>
<td>1</td>
</tr>
<tr>
<td>DNHY 469S</td>
<td>APPLIED STATISTICS AND EVIDENCE-BASED DECISION MAKING FOR THE HEALTH SCIENCES</td>
<td>4</td>
</tr>
<tr>
<td>DNHY 471S</td>
<td>PRINCIPLES OF RESEARCH AND SCIENTIFIC WRITING</td>
<td>4</td>
</tr>
<tr>
<td>DNHY 485S</td>
<td>ORAL HEALTH PROMOTION</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 486S</td>
<td>CONTEMPORARY ISSUES IN DENTAL HYGIENE</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 487S</td>
<td>PRINCIPLES AND POLICIES OF ORAL HEALTHCARE MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 488S</td>
<td>RELATIONSHIP, ETHICS AND COMMUNICATION IN HEALTHCARE</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 489S</td>
<td>PRINCIPLES OF DENTAL PUBLIC HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 490S</td>
<td>DENTAL HYGIENE CAPSTONE</td>
<td>4</td>
</tr>
<tr>
<td>DNHY 491S</td>
<td>FOUNDATIONS OF DENTAL HYGIENE</td>
<td>5</td>
</tr>
<tr>
<td>DNHY 492S</td>
<td>EDUCATION/HEALTH PROMOTION PRACTICUM</td>
<td>3</td>
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<tr>
<td>DNHY 494S</td>
<td>MYTHOLOGY, FOLKLORE AND HEALTHCARE</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits**: 40

The Bachelor of Science in Dental Hygiene Degree Completion program is designed for students to meet EWU’s General Education Core Requirements. All students accepted to the Bachelor of Science in Dental Hygiene Degree Completion program must meet University proficiencies and competencies in Math and English. English 201 or its equivalent (English proficiency) is required, along with a college algebra proficiency. Students who do not have completed coursework are permitted to start the program. Please plan accordingly when creating your education plan with the BSDH Program Director.

**Student Learning Outcomes**—students will

- exemplify critical thinking skills, self-assessment, ethical, legal, and moral responsibility to strengthen professional effectiveness in all roles of the dental hygienist;
- synthesize theoretical and empirical knowledge from dental hygiene, scientific, and humanistic disciplines and integrate it into clinical, academic, and leadership roles;
- embody leadership and advocacy skills to enhance the quality of dental hygiene and health care;
- evaluate research and apply findings to evidence-based practices in the roles of the dental hygienist;
- collaborate with other professionals and the public to promote the health and well-being of a diverse society;
- engage in lifelong learning through graduate education and/or specialty training, as appropriate.

**Dental Hygiene, Master of Science (MS)**

**Graduate Program**

The MSDH program offers opportunities for licensed dental hygienists who desire a graduate degree and have a baccalaureate degree. Our graduate program prepares graduates to assume roles in various employment environments and provides them with the tools to initiate as well as to adapt to change. Course work is designed to promote advanced communication and interpersonal skills, critical and reflective thinking, evidence-based decision making, problem-solving, technology and information literacy, interdisciplinarity and interprofessional collaboration, scholarly inquiry and application, ethical and professional behavior, and the value of lifelong learning. Graduate education in dental hygiene is imperative for developing a cadre of dental hygiene professionals who lead the profession and assume leadership roles in health care and education, as well as the development of scholars to participate in the generation and dissemination of original research. Dental hygiene graduate education is based on a body of knowledge that is specific to the roles of the dental hygienist. To that end, students with faculty mentorship complete a practicum experience and a research thesis based on their chosen interest.

Students are required to come to EWU Spokane campus on two occasions, to attend a clinical based course in the first Fall semester and to defend their thesis prior to graduation. All other coursework in this 40 semester credit online program is taught via Canvas, an online Learning Management System that allows students to submit assignments, contact the course instructor, collaborate with fellow students, participate in discussions, and even videoconference from virtually anywhere.

**Admission Requirements for MSDH Program**

1. Cumulative undergraduate GPA ≥3.0.
2. Bachelor of Science in Dental Hygiene or related area from an accredited dental hygiene program in the U.S. or Canada. (Bachelor of Arts are considered on a case-by-case basis)
3. Successful completion of the Dental Hygiene National Board exam or its Canadian equivalent.
4. A current dental hygiene license in the U.S. or Canada.

In addition to the $50 university graduate application fee, there is an additional $50 departmental application fee. Applications to the Department of Dental Hygiene are not considered until they are processed in the EWU Graduate Studies Office and a copy of the transcript evaluation is sent from Graduate Studies to the Department of Dental Hygiene. Transcripts and inquiries should be directed to Ann O’Kelley Wetmore, director of the MSDH program or Emilie Crawford, Program Specialist. Information on program application and admission is accessed at the Dental Hygiene (https://www.ewu.edu/chsph/programs/dental-hygiene) department web page.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>DNHY 501S</td>
<td>ADVANCED DENTAL HYGIENE PRACTICE WITH LAB</td>
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<tr>
<td>DNHY 505S</td>
<td>HEALTHCARE LEADERSHIP</td>
<td>3</td>
</tr>
<tr>
<td>DNHY 520S</td>
<td>RESEARCH METHODOLOGIES AND SCHOLARLY WRITING</td>
<td>4</td>
</tr>
<tr>
<td>DNHY 530S</td>
<td>INTRODUCTION TO THESIS</td>
<td>1</td>
</tr>
<tr>
<td>DNHY 600S</td>
<td>THERESIS</td>
<td>2</td>
</tr>
<tr>
<td>DNHY 605S</td>
<td>COMPONENTS OF PROGRAM DEVELOPMENT</td>
<td>2</td>
</tr>
<tr>
<td>DNHY 610S</td>
<td>HEALTHCARE EDUCATION THEORIES AND INSTRUCTIONAL METHODS</td>
<td>2</td>
</tr>
<tr>
<td>DNHY 615S</td>
<td>PRINCIPLES OF DENTAL HYGIENE COURSE AND CURRICULUM DESIGN</td>
<td>3</td>
</tr>
</tbody>
</table>
DNHY 620S  SEMINAR ON CONCEPTS OF PUBLIC HEALTH AND HEALTH PROMOTION  2
DNHY 625S  CLINICAL TEACHING STRATEGIES  2
DNHY 630S  SEMINAR ON HEALTHCARE POLICIES AND FINANCE  2
DNHY 635S  PRACTICUM  5
DNHY 640S  SEMINAR ON ADMINISTRATION, MANAGEMENT AND ORGANIZATION  2
PUBH 563S  RESEARCH, BIOSTATISTICS AND OTHER WAYS OF ‘KNOWING’  3

Total Credits  34

Student Learning Outcomes—students will

• exhibit the technical abilities, intellectual knowledge, and ethics necessary to collaborate and advocate for health policy challenges facing the health profession;
• exemplify critical thinking, scholarly inquiry, and professionalism as a leader in the profession and community;
• implement evidence-based theories and methods in a culturally sensitive manner to provide comprehensive care and promote health and well being;
• embody self-learning as a means to meet their full potential and contribute to making our community, our profession, and our world a better place to live.
Dentistry

Art DiMarco, Director, Regional Initiatives in Dental Education
program page (https://www.ewu.edu/chsph/programs/ride)
509.828.1290
Food and Nutrition/Dietetics

Food and Nutrition/Dietetics does not offer a degree program, but the course supports other programs.
Health Services Administration

Mary Ann Keogh Hoss (mhoss@ewu.edu), Program Director
program page (https://www.ewu.edu/chsph/programs/health-services-administration)
668 N. Riverpoint Blvd.
509.828.1245

Faculty
Mary Ann Keogh Hoss.

Undergraduate Degrees

Bachelor of Arts (BA)
- Health Services Administration (p. 220)
- Health Services Administration Long Term Care Option (p. 221)

Undergraduate Minors
- Health Services Management (p. 220)

Undergraduate Programs

The Health Services Administration Program, Department of Public Health and Health Administration, is offered by the College of Health Science and Public Health. The undergraduate program is certified nationally by the Association of University Programs in Health Administration. This interdisciplinary program is designed for students interested in a variety of careers in the field of health services administration. Students are prepared for positions in health clinics, hospitals, long term care facilities, health maintenance organizations, health insurance companies, home health agencies, mental health agencies, physician practices, health departments, various regulatory agencies and community-based agencies among others. Responsibilities carried out by health managers/administrators include: budgeting/financial management, planning, human resource management, data analysis, marketing, physician relations and administration.

The required courses are in the areas of health services administration, business, health and economics. In addition, the program requires that the student complete a track or a minor in a specific sub-specialty. Examples of tracks include: aging, planning, human resource management, information technology, economics and business administration. Students must have approval of the program advisor for track or minor chosen and courses selected. HSAD students must maintain a cumulative GPA ≥3.0 for all HSAD classes and no more than two course grades may be <3.0. Students earning three or more grades of <3.0 in HSAD courses will be dismissed from the program. All other major requirements must be completed with a ≥2.0. The culmination of the student’s experience in the program will be an internship in a health care setting. To qualify for the internship, the student must have at least a grade point average ≥3.0 in HSAD classes plus permission from the department.

Students in the Health Services Administration Program must have an overall cumulative grade point average ≥2.25. Also, students must complete one year of a foreign language, such as Spanish or sign language in college or two years of a single foreign language in high school.

Upon acceptance to the program students must complete at least 92 credit hours. Students choosing to minor in health services must complete 20 credit hours. Some courses are offered one time per year and students should check with the program specialist and class schedule each quarter.

Professional Membership Requirements
Every student graduating in Health Services Administration must be a student member of a professional organization at least by their senior year.

Work Experience Requirements
It is strongly advised that all students seek as much practical experience as possible in a health care setting, whether voluntary or paid. Students are urged to consult with their advisors in order to plan their program.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Certificates
- Health Services Administration (p. 220)

Graduate Program

The College of Health Science & Public Health through its Health Services Administrative and Public Health Programs, offers graduate courses and a graduate level certificate in public health leadership. Courses from health services administration and public health are often included in a variety of undergraduate health disciplines and graduate programs. The graduate courses are designed to expand one’s understanding of the challenges that impact the successful delivery of health services. Individual classes focus on organizational issues that impact health delivery. The topics covered in these classes will be useful to health-related professionals who have specialty expertise in a health discipline and desire a greater understanding of the legal, fiscal, managerial and leadership aspects of delivering health care in several different environments. These classes will also help non health professionals who wish more knowledge of financing and delivery of public, private and not for profit health services.

The graduate certificate supports the goals of the college and the university by providing opportunities for people to expand their leadership, management, critical and systems thinking skills. Students who successfully complete a certificate offered by this program will become more effective managers or collaborators within the health delivery system. The program believes in the concept that health is an interprofessional, team process and is committed to providing education, research and service opportunities for students to become effective in both public and private health settings.

Admission Requirements/Preparation
The identification of necessary prerequisites would occur though a review of transcripts and other application material by the program director.

Program Requirements
Two copies of official transcripts for all college work completed.

Meet graduate program admission requirements
A letter describing one’s background and experience in the health delivery system and how the Health Services Administration fits into ones professionalism goals.

Application materials should be sent directly to Graduate Programs office, 206 Showalter, Eastern Washington University

Application Deadline
The Health Services Administration and Public Health programs accept students into courses at any time. HSAD 500S, Health Systems is the first class and is offered in the fall. It is the prerequisite for the remaining classes. Certificate applicants should plan to start with HSAD 500S.

Health Services Administration
Major, Bachelor of Arts (BA)

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required;
• HSAD students must maintain a cumulative GPA ≥3.0 for all HSAD classes.

Required Supporting Courses
ACCT 251  PRINCIPLES OF FINANCIAL ACCOUNTING  5
ACCT 252  PRINCIPLES OF MANAGEMENT ACCOUNTING  4
BUED 302  BUSINESS COMMUNICATION  4
DSCI 245  DATA ANALYSIS FOR BUSINESS  4
ECON 200  INTRODUCTION TO MICROECONOMICS  5
ECON 452  HEALTH ECONOMICS  5
HLED 256  MEDICAL TERMINOLOGY  2
or OCTH 292  FOUNDATIONS OF DOCUMENTATION AND MEDICAL TERMINOLOGY FOR THE REHABILITATION PROFESSIONAL
HUMR 328  HUMAN RESOURCE MANAGEMENT  4
MATH 200  FINITE MATHEMATICS  5
MISC 211  INFORMATION TECHNOLOGY IN BUSINESS  4
MKTG 310  PRINCIPLES OF MARKETING  4
PLAN 424  STRATEGIC PLANNING  4

Required Core Courses
HSAD 300  HEALTH CARE ORGANIZATION AND ADMINISTRATION  4
HSAD 310  HEALTH CARE SUPERVISION  4
HSAD 315  SEMINAR ON PROFESSIONAL DEVELOPMENT  1
HSAD 322  HEALTH CARE TECHNOLOGY  4
HSAD 410  HEALTH LAW REGULATION AND ETHICS  4
HSAD 435  PROCESS IMPROVEMENT IN HEALTH CARE  4
or OPSM 330  OPERATIONS MANAGEMENT
HSAD 440  HEALTHCARE RESEARCH DESIGN AND METHOD  4
HSAD 445  POPULATION HEALTH MANAGEMENT  4
HSAD 470  HEALTHCARE FINANCE  4
HSAD 490  SENIOR CAPSTONE  4

Track or Minor
Choice of courses to be selected with approval of HSAD advisor. (8 credits minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSAD 495</td>
<td>INTERNSHIP</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits 100

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• focus on five core healthcare competency areas—communication and relationship management, professionalism, leadership, knowledge of the healthcare environment and business skills and knowledge;
• demonstrate effective written, oral and presentation communication skills in healthcare settings;
• apply the five core healthcare competencies in healthcare settings;
• problem solve in a variety of situations in healthcare settings;
• manage projects utilizing the five core healthcare competency areas;
• integrate the five core healthcare competencies in an internship in a healthcare setting.

Health Services Administration
Graduate Certificate

The Health Services Administration Certificate is intended to provide students who have an interest in working within the health field with an understanding of the many different types of health organizations that exist in the U.S. The courses also present students with an overview of the financial, legal and administrative issues that face all health administrators in today’s market. The program is scheduled to resume in 2017-2018. Qualified candidates are encouraged to consider the Public Health Leadership Certificate (a semester-based program).

Required Courses
HSAD 500  US HEALTH CARE SYSTEMS  4
HSAD 510  HEALTH LAW  4
HSAD 520  HEALTH REIMBURSEMENT ISSUES  4
HSAD 545  HEALTH INFORMATICS  4
HSAD 598  SEMINAR IN HEALTH SERV ADMIN  4
Total Credits 20

Student Learning Outcomes—students will
• apply healthcare management concepts to current healthcare issues;
• demonstrate effective written, oral and presentation communication skills;
• analyze approaches to meet healthcare needs.

Health Services Management Minor

Required Courses
HSAD 300  HEALTH CARE ORGANIZATION AND ADMINISTRATION  4
HSAD 310  HEALTH CARE SUPERVISION  4
HSAD 322  HEALTH CARE TECHNOLOGY  4
HSAD 410  HEALTH LAW REGULATION AND ETHICS  4
HSAD 435  PROCESS IMPROVEMENT IN HEALTH CARE  4
Total Credits 20
# Health Services Administration - Long Term Care Option, Bachelor of Arts (BA)

## Required Supporting Courses
- **ACCT 251** PRINCIPLES OF FINANCIAL ACCOUNTING 5
- **ACCT 252** PRINCIPLES OF MANAGEMENT ACCOUNTING 4
- **BUED 302** BUSINESS COMMUNICATION 4
- **DSCI 245** DATA ANALYSIS FOR BUSINESS 4
- **ECON 200** INTRODUCTION TO MICROECONOMICS 5
- **ECON 452** HEALTH ECONOMICS 5
- **HLED 256** MEDICAL TERMINOLOGY 2
  or **OCTH 292** FOUNDATIONS OF DOCUMENTATION AND MEDICAL TERMINOLOGY FOR THE REHABILITATION PROFESSIONAL 2
- **HUMR 328** HUMAN RESOURCE MANAGEMENT 4
- **MATH 200** FINITE MATHEMATICS 5
- **MISC 211** INFORMATION TECHNOLOGY IN BUSINESS 4
- **MKTG 310** PRINCIPLES OF MARKETING 4
- **PLAN 424** STRATEGIC PLANNING 4

## Required Core Courses
- **HSAD 300** HEALTH CARE ORGANIZATION AND ADMINISTRATION 4
- **HSAD 310** HEALTH CARE SUPERVISION 4
- **HSAD 315** SEMINAR ON PROFESSIONAL DEVELOPMENT 1
- **HSAD 322** HEALTH CARE TECHNOLOGY 4
- **HSAD 410** HEALTH LAW REGULATION AND ETHICS 4
- **HSAD 435** PROCESS IMPROVEMENT IN HEALTH CARE 4
  or **OPSM 330** OPERATIONS MANAGEMENT 4
- **HSAD 440** HEALTHCARE RESEARCH DESIGN AND METHOD 4
- **HSAD 445** POPULATION HEALTH MANAGEMENT 4
- **HSAD 470** HEALTHCARE FINANCE 4
- **HSAD 480** FACILITIES AND MAINTENANCE 2
- **HSAD 490** SENIOR CAPSTONE 4

### Aging Track—courses to be chosen with approval of the HSAD program director. (8 credit minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSAD 460</td>
<td>LONG TERM CARE ADMINISTRATION</td>
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<tr>
<td>HSAD 486</td>
<td>LONG TERM PRACTICUM 1</td>
<td>5-12</td>
</tr>
<tr>
<td>HSAD 487</td>
<td>LONG TERM PRACTICUM 2</td>
<td>5-12</td>
</tr>
<tr>
<td>HSAD 488</td>
<td>LONG TERM PRACTICUM 3</td>
<td>5-12</td>
</tr>
</tbody>
</table>

**Total Credits**: 116-137

**Student Learning Outcomes—students will**

- demonstrate effective written, oral and presentation communication skills for long term care;
- apply the 5 core competencies in long term care settings: Resident Care and Quality of Life, Human Resources, Finance, Physical Environment and Atmosphere and Leadership and Management;
- manage projects in long term care settings;
- integrate the 5 core competencies in a long term care setting in a 1000 hour practicum.

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# Public Health Leadership Graduate Certificate

The Public Health Leadership Certificate is intended to provide students who have an interest in working within the health field with an understanding of the many different types of health organizations that exist in the U.S. Global health delivery systems are explored as a means to understand possibilities for the U.S. The courses also present students with an overview of the financial, legal and administrative issues that face all health administrators in today’s market.

Students who wish a Health Services Administration Certificate must successfully complete the following courses.

## Required Courses
- **HSAD 500S** HEALTH SYSTEMS 4
- **HSAD 510S** HEALTH LAW AND FINANCE 4
- **HSAD 520S** ADMINISTRATION AND LEADERSHIP IN HEALTH SERVICES 4
- **HSAD 598S** SEMINAR IN HEALTH SERVICES ADMINISTRATION 4

**Total Credits**: 16

**Student Learning Outcomes—students will**

- demonstrate effective written and oral presentation communication skills;
- discuss current health service trends regional, national and global;
- apply health services management strategies to public and private health delivery systems.
Undergraduate Degrees

Bachelor of Science (BSN)

- Nursing (p. 222)

Undergraduate Programs

An agreement referred to as the Intercollegiate Nursing Alliance allows for admission of a select proportion of students from three partner universities (Washington State University, Eastern Washington University and Whitworth University) into the upper division portion of the nursing program. This agreement is based on a long-standing collaboration between these universities. Alliance students take lower-division classes at a partner university and upper-division nursing courses at the Washington State University College of Nursing.

General Admissions Requirements for Nursing

Admission to the upper division, nursing major taught in the WSU College of Nursing is based upon evaluation of the student’s entire application, including academic record, GPA and personal interview. The number of applicants to the WSU College of Nursing may exceed the number that can be admitted; therefore, no assurance can be given that all applicants admitted to Eastern Washington University and successfully completing the lower-division requirements would be admitted to the nursing major. Applicants must complete 90 acceptable quarter credits from Eastern Washington University. The credits must include courses that meet general education core requirements university, competencies and proficiencies, university graduation requirements (the EWU senior capstone is waived), and the prerequisite courses for the nursing program. Approximately 650 basic and registered nurse students are enrolled in the baccalaureate, nursing program. The undergraduate program is for students initiating the study of nursing and for registered nurses who wish to obtain a baccalaureate degree in nursing. For more information please contact GUAA.

Instructional programs are conducted at the baccalaureate level to develop responsible citizens and to provide the professional knowledge, skills and values essential to the practice of nursing throughout our global society. The undergraduate curriculum includes both liberal arts education and preparation as a generalist in the practice of nursing.

New Requirements for the College of Nursing for Spring 2014 Admission

- TEAS Testing: TEAS (Test of Essential Academic Skills) is a proctored online multiple choice exam that measures entry level skills and abilities (science, math, language and reading language) of nursing program applicants. Prospective students must score at the proficient, advanced or exemplary level to be eligible for admission.

- A proctored writing exam will be given to students during the personal interview process.

- Fifty hours of volunteer/work experience in the healthcare or related setting.

After admission and prior to registration at the WSU College of Nursing, basic students are required to submit evidence of First Aid and CPR (must be Adult, Infant and Child) certification. CPR certification must also be updated annually unless the initial card is valid for two years. HLED 194 provides both certifications.

Required courses in the following program of study may have prerequisites.

- Reference the course description section for clarification.

EWU Nursing Prerequisite Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIOL 232</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
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<td>BIOL 233</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
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<tr>
<td>BIOL 234</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS</td>
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</tr>
<tr>
<td>BIOL 235</td>
<td>ELEMENTARY MEDICAL MICROBIOLOGY</td>
<td>5</td>
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<tr>
<td>CHEM 161</td>
<td>GENERAL CHEMISTRY FOR THE HEALTH SCIENCES</td>
<td>5</td>
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<tr>
<td>CHEM 162</td>
<td>ORGANIC CHEMISTRY FOR THE HEALTH SCIENCES</td>
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<tr>
<td>CHEM 163</td>
<td>BIOCHEMISTRY FOR THE HEALTH SCIENCES</td>
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<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
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<td>FNDT 356</td>
<td>NUTRITION</td>
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<td>PSYC 100</td>
<td>GENERAL PSYCHOLOGY</td>
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<td>PSYC 201</td>
<td>LIFE-SPAN DEVELOPMENT</td>
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<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
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<tr>
<td>or SOCI 263</td>
<td>SOCIAL PROBLEMS</td>
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</table>

Total Credits: 60

Nursing Major, Bachelor of Science (BSN)

Please contact GUAA if you are interested in this major.

WSU Required Nursing Major Courses

- NURS 308 Evidence Based Practice (4.5)
- NURS 309 Professional Development II: Ethical Reasoning and Decision Making Processes in Nursing (4.5)
- NURS 311 Pathophysiology and Pharmacology for Nursing (6)
- NURS 315 Nursing Practice: Health and Illness (6)
NURS 316 Introduction to Nursing Practice in Health and Illness: Theory (3)
NURS 317 Health Assessment (4.5)
NURS 322 The Human Experience of Diversity and Health (3)
NURS 324 Nursing Concepts in Acute and Chronic Illness in the Adults (6)
NURS 325 Nursing Practice in Acute and Chronic Illness in Adults (7.5)
NURS 328 Introduction to Gerontological Nursing (3)
NURS 408 Professional Development III: Leadership and Management (4.5)
NURS 409 Professional Development IV: Transition to Practice (3)
NURS 414 Child and Family Health: Theory (4.5)
NURS 415 Children and Families as the Focus of Nursing Care (3)
NURS 416 Childbearing Health of the Family (4.5)
NURS 417 Nursing Care of Childbearing Families (3)
NURS 424 Psychiatric/Mental Health Nursing Concepts (4.5)
NURS 425 Nursing Practice: Psychiatric/Mental Health (3)
NURS 426 Community Health Nursing Theory (3)
NURS 427 Community Health Nursing Practice (4.5)
NURS 430 Senior Practicum (4.5)

Elective
Tier III/Upper Division Elective (4.5)

Total credits for above major 94.5 credits

BSN for RNs Admission Criteria

- Washington State RN licensure eligibility (National Background Check clearance upon acceptance to the WSU College of Nursing);
- junior year standing (60 semester hours (s)/90 quarter credits (q);
- cumulative GPA ≥3.0 in college courses and in course prerequisites to nursing;
- minimum course grade in each course prerequisite to nursing ≥(C, 2.0);
- computer skills, word processing, World Wide Web and email are essential;
- some travel to the College of Nursing in Spokane may be required.

Student Learning Outcomes—students will

- provide competent nursing care to individuals, families, groups and communities through promotion, maintenance, and restoration of health; prevention of illness, and physical, emotional, and spiritual support throughout life span;
- formulate nursing practice decisions using evolving knowledge and research from nursing science, the biological and behavioral sciences and humanities;
- use developmentally appropriate teaching-learning principals to assist clients to achieve their heath goals and to assist colleagues to improve the quality of their nursing care;
- provide compassionate, ethical care to individuals of diverse cultures, values, beliefs, and lifestyles;
- demonstrate the values central to nursing practice including: altruism, autonomy, human dignity, integrity, and social justice;
- protect the rights of people to receive optimum care and make informed decisions affecting their health welfare.

RN to BSN

Semester I

NURS 360 Professional Nursing Concepts and Issues (2)
NURS 365 Assessment and Application of Physiological Concepts I (3)
NURS 400 Nursing Research and Informatics (3)

Semester II

NURS 366 Assessment and Application of Physiological Concepts II (3)
NURS 477 Ethics in Health Care (2)

Semester III

NURS 405 Nursing Leadership (2)
NURS 440 Community Health Nursing Concepts (2)
NURS 462 Psychiatric Mental Heath Concepts (2)
NURS 465 Community and Psychiatric Mental Heath Practice (3)
(8 hours per week; 108 hours total)

Semester IV

NURS 406 Nursing Management (3)
NURS 495 Advanced Clinical Practicum (80 hours as arranged) (2)
Tier III Upper Division Elective (3)

For information on General Education, see Undergraduate Degree (p. 39).
Occupational Therapy

Donna Mann, Chair
department page (https://www.ewu.edu/chsph/programs/occupational-therapy)
Health Sciences Bldg.
310 North Riverpoint Blvd, Box R
Spokane, WA 99202-1675
509.828.1348

Faculty
Pedro Ashford, Susan C. Burwash, Robert B. Krueger, Donna P. Mann,
Diane Norell, Roberta L. Snover.

Undergraduate Program

Majors in Exercise Science or Interdisciplinary Studies leading to a
Master of Occupational Therapy (MOT)
The Advanced Standing Master of Occupational Therapy program will
allow a student to complete the requirements for an undergraduate
degree while enrolled in courses required for the first year of the
professional Occupational Therapy program. The student begins the
occupational therapy track in the senior year, earns a Bachelor of Arts
degree in Interdisciplinary Studies or a Bachelor of Science degree in
Exercise Science, and applies to the Advanced Standing MOT program,
which can be completed over the next one and half years. This program
will introduce occupational therapy to undergraduate students early in
their career development.

Admission to Combined Bachelor’s and Master of Occupational
Therapy Program
The student first meets with the Admissions Coordinator of the
Occupational Therapy Department for review of prerequisites, the course
of study and a discussion of occupational therapy as a profession.
A student pursing a BA in Interdisciplinary Studies will be referred to
the director of Interdisciplinary Studies for formal application, and
the students working toward a degree in Exercise Science will work a
program advisor from that respective program.

Students interested in working toward a combined Bachelor’s and Master
of Occupational Therapy should contact the admissions coordinator,
Department of Occupational Therapy, Eastern Washington University, 310
N. Riverpoint Blvd., Box R, Spokane WA 99202-1675 or call 509.828.1344
or contact ot@ewu.edu.

During the first three years of the Exercise Science degree with an
emphasis in occupational therapy, the student develops a solid
foundation in exercise science, as well as meets all university graduation
requirements. Additionally, during this time, the student fulfills the
prerequisite requirements for the Master of Occupational Therapy.

Students who require advising in the Exercise Science degree with an
emphasis in Occupational Therapy should contact Wendy Repovich,
PhD, Exercise Science director, PEHR Dept., 200 Physical Education
Building, Cheney, WA, 99004-2476, or call 509.359.7960 or contact
wrepovich@ewu.edu.

Students interested in the Bachelor of Arts in Interdisciplinary Studies
major are encouraged to meet with an advisor from the Department
of Occupational Therapy during the sophomore year and no later
than the spring of the junior year. During the first three years of the
Interdisciplinary Studies major with an emphasis in Occupational
Therapy, the student develops a course of study to address his or her
interests, as well as meet university and interdisciplinary studies’ major
requirements. Additionally, during this time, the student fulfills the
prerequisite requirements for the Advanced Standing MOT.

Students who require advising in the Interdisciplinary Studies major
with an emphasis in Occupational Therapy should contact John
Neace, Director, Interdisciplinary Studies, 300 Senior Hall, Cheney, WA,
99004-2414 or call 509.359.6524 or jneace@ewu.edu.

Admission into the occupational therapy track is offered only one time
per year with students beginning the program summer semester. A
personal interview may be required for admission into the occupational
therapy track. The deadline for applications is the January 1 prior to
the expected summer semester admission. The department admission
committee will review and evaluate all applicants’ admission materials
and prerequisites. Check with the department for exact admission
deadlines: 509.828.1344.

Occupational Therapy Track Admission Criteria
Completion of 122 or more undergraduate credits and all general
education requirements for EWU.

Completion of all prerequisite courses for application to the
occupational therapy track. All of the prerequisite courses must be
completed prior to admission into the occupational therapy track.

Numbers in parentheses indicate the number of quarter credits required.

Additional Requirements
The admissions process in occupational therapy is highly competitive.
The requirements listed below are the minimum acceptable requirements
to apply to the program and are not indicative of the competitive range
of students generally accepted into the program. The following are the
minimum acceptable requirements:

1. minimum cumulative GPA ≥3.0 of all prerequisite courses with no
course <2.0.

During the senior year, the student begins a series of required
courses listed below.

Students enrolled in the Occupational Therapy Track must complete the
schedule of courses in the MOT curriculum toward completion of a BA in
Interdisciplinary Studies, or BS in Exercise Science, Occupational Therapy
Track.

Notes:
• a student may elect to discontinue the occupational therapy track
and decide not to pursue the Master of Occupational Therapy;
• the student may complete the remaining 180 credits toward
graduation in courses outside the occupational therapy curriculum
and meet the graduation requirements for a Bachelor of Arts in
Interdisciplinary Studies or Bachelor of Science in Exercise Science;
• two years of a single high school foreign language or one year of a
single college-level foreign language is required for a Bachelor of Arts
degree;
• applications for admission to the combined bachelor’s programs
with the MOT program are available on the Occupational Therapy
Department website or upon request.
Graduate Degrees

Master of Occupational Therapy (MOT)

- Occupational Therapy (p. 226)
- Advanced Standing Master of Occupational Therapy (p. 226)

Graduate Program

Occupational Therapy will be taught on the semester system starting fall 2015.

The Profession: Occupational Therapy (OT) is a health and rehabilitation profession that helps people of all ages to participate more fully in their day-to-day lives. Occupational therapists assist persons who are experiencing a physical, cognitive or emotional illness) recover to their maximum level of independence. Occupational therapists help people take care of themselves and their families, enjoy life and contribute to the social and economic fabric of the community.

Our Mission

- To develop person-centered occupational therapists of the highest integrity who practice with a strong occupation-based foundation from which they support and promote quality of life and full participation.
- To prepare students for a broad scope of practice with consideration for addressing the needs of the underserved.
- To deliver an academic program which meets a spectrum of educational needs for students and professionals, in collaboration with community partners, while demonstrating teaching and learning excellence.
- To advance the profession with new, innovative and cost effective services for current and future practice opportunities.

Our Vision

- We envision a globally active community of students, faculty and community partners who demonstrate a respect for diversity, a passion for learning and a commitment to person-centered, occupation-focused and evidence-based practice.

Accreditation: the Occupational Therapy Program at Eastern Washington University is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, STE 200, Bethesda, MD 20814-3449. ACOTE’s telephone number c/o AOTA is 301.652.AOTA. www.aota.org (http://www.aota.org)

Graduates of the program will be eligible to sit for the National Certification Examination for the Occupational Therapist administered by the National Board for Certification of Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an occupational therapist, registered (OTR). In addition, most states require licensure to practice. However, state licenses are usually based on the results of the NBCOT certification examination. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure. Students must complete Level II Fieldwork within 24 months following completion of the didactic portion of the program.

General Admission Requirements:

Eastern provides two methods for students seeking entry into the profession of occupational therapy:

1. Combined Bachelor of Arts (BA) in Interdisciplinary Studies, Bachelor of Science (BS) in Exercise Science degree programs available at EWU or
2. Completed bachelor’s degree in any discipline ready to pursue graduate studies immediately. General admission requirements to both are each described below.

Complete the prerequisite courses listed:

1. Chemistry: any college-level course 5
2. English Composition or Technical Writing (200-level or above) 5
3. Human Anatomy (200-level or above) 5
4. Human Physiology (200-level or above) 5
5. Introduction to Occupational Therapy 2
6. Medical Terminology 2
7. Psychology 100 General (or Human) Psychology 5
8. Abnormal Psychology (200-level or above) 5
9. Introduction to Sociology or Cultural Anthropology 5
10. Human Development through the Life Span (200-level or above) 4-5

Statistics 5

Total Credits 48-49

1. If the full A and P series (BIOL 232, BIOL 233 and BIOL 234) is completed at EWU, the medical terminology prerequisite is waived. The full A and P series is recommended if attending EWU.
2. It is highly recommended that students take OCTH 101 at EWU (offered fall quarter and online every quarter). However, if this is not possible, the course is available online. Contact EWU Online Learning at 509.359.2268
3. OCTH 292 can also be taken online at EWU. Contact EWU Online Learning at 509.359.2268.

Other

Public Speaking—candidates are expected to be proficient in public speaking;

Computer Competency—candidates are expected to be proficient with and have access to a computer;

Students are required to have an email address during the program.

2. Complete the Graduate Record Examination (GRE) by January 1 of the year of application. Successful candidates are expected to perform a score greater than three (3) on the written section of the examination. GRE scores are valid for five years after test date.
3. Complete a minimum of 40 hours work/observation/volunteer experience with persons who have disabilities. Ten of the 40 hours must be in at least two different types of practice settings (e.g., acute care institutions, rehabilitation centers, pediatric centers, residential facilities, nursing homes, schools or mental health settings) under the supervision of a licensed occupational therapist.
4. Three original letters of recommendation;
5. One letter of recommendation must come from the supervising occupational therapist of the volunteer experience.
6. One letter of recommendation from an instructor/teacher who taught any college-level academic courses taken by the applicant in the areas of: a) Mathematics, or b) Science or c) English, or d) Psychology.
7. One letter of recommendation from a person (unrelated) who can provide a character reference.
8. Personal Essay
9. Successful completion of a group interview.
10. Formal application is made online to OTCAS (http://www.otcas.org).

Final Comprehensive Examination
The final comprehensive examination for the Master of Occupational Therapy (MOT) Degree includes a research seminar and oral defense of the master’s research project presented to the department and graduate committee. Immediately following the oral defense of the research project, the student is given an oral examination administered by the student’s graduate committee which is composed of two–three departmental faculty members and a faculty member appointed by the Graduate Office. The focus of the examination is the student’s research and general questions related to the profession of occupational therapy and its practice. Successful completion of the comprehensive examination is required before enrollment in OCTH 695S.

Occupational Therapy, Advanced Standing Master of Occupational Therapy (MOT)

Advanced Standing Master of Occupational Therapy
This program allows qualified students who have graduated in one of the combined bachelor’s/MOT program to complete the MOT in one and one half years (73 credits).

Advanced Standing Master of Occupational Therapy Criteria
Prior to January 1, students apply to the Advance Standing Master of Occupational Therapy Program (see Master of Occupational Therapy admission requirements).

Successful completion of the Interdisciplinary Studies, Exercise Science or equivalent (completed by June 30 of the baccalaureate graduation year.)

Students must demonstrate a ≥3.0 cumulative college GPA in all Occupational Therapy courses with no course grade below a <2.5. Eligibility for graduate admission is determined by a minimum GPA ≥3.0 in the last 90 quarter graded hours.

Admission to Graduate Studies at Eastern Washington University. EWU Graduate Studies is located at 206 Showalter Hall, Cheney WA 99004 (509.359.6297).

Admissions to the Master of Occupational Therapy (MOT) with a bachelor degree

Entry-Level Master’s Admission Requirements
To be admitted to the Entry-Level Master’s of Occupational Therapy Program, applicants must first meet all requirements for admission to the Graduate School as outlined elsewhere in this catalog. The admission process to the Entry-Level Master of Occupational Therapy Program is highly competitive. The requirements listed below are the minimum acceptable requirements to apply to the program and are not indicative of the competitive range of students generally accepted into the program.

Additional Requirements must be completed prior to admission into the program
1. qualify and apply for acceptance into studies at Eastern Washington University Graduate Studies. (206 Showalter Hall, Cheney, WA 99004, 509.359.6297);
2. complete a baccalaureate degree from an accredited institution by June 15 of the year of application.

Candidacy
To be advanced to Master’s Degree Candidacy, graduate students in the Master of Occupational Therapy Degree (MOT) Program must have met the following requirements:
1. submitted the Application of Degree Candidacy form to the Graduate Programs Office, specifying the Master in Occupational Therapy Degree Program approved by the Department of Occupational Therapy;
2. completed the first semester of the MOT Program’s courses with a minimum GPA ≥3.0 in all courses;
3. removed any/all deficiencies regarding graduate requirements;
4. met with OT graduate advisor to confirm the required course of study as well as requirements for advancing candidacy and graduation;
5. received approval for advancement to candidacy from the Dean of Graduate Studies or the dean’s designee.

Occupational Therapy, Master of Occupational Therapy (MOT)

Required Courses

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OCTH 501S</td>
<td>APPLIED HUMAN ANATOMY FOR OCCUPATIONAL THERAPY</td>
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<td>OCTH 502S</td>
<td>CLINICAL KINESIOLOGY AND BIOMECHANICS</td>
<td>3</td>
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<tr>
<td>OCTH 503S</td>
<td>APPLIED NEUROLOGY FOR OCCUPATIONAL THERAPY</td>
<td>3</td>
</tr>
<tr>
<td>OCTH 504S</td>
<td>OCCUPATIONAL THERAPY THEORY AND FOUNDATIONS</td>
<td>4</td>
</tr>
<tr>
<td>OCTH 505S</td>
<td>IMPACT OF HUMAN DISEASE ON OCCUPATIONAL PERFORMANCE</td>
<td>1</td>
</tr>
<tr>
<td>OCTH 506S</td>
<td>PRACTICE SKILLS AND ETHICS</td>
<td>1</td>
</tr>
<tr>
<td>OCTH 507S</td>
<td>ACTIVITY ANALYSIS</td>
<td>1</td>
</tr>
<tr>
<td>OCTH 508S</td>
<td>OCCUPATIONAL SYNTHESIS</td>
<td>3</td>
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<tr>
<td>OCTH 510S</td>
<td>GROUP PROCESS</td>
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<tr>
<td>OCTH 512S</td>
<td>FIELDWORK SEMINAR</td>
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<td>OCTH 520S</td>
<td>PRINCIPLES OF EVIDENCE BASED PRACTICE</td>
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<tr>
<td>OCTH 522S</td>
<td>RESEARCH METHODS IN OCCUPATIONAL THERAPY</td>
<td>3</td>
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<tr>
<td>OCTH 523S</td>
<td>ASSESSMENT AND EVALUATION OF OCCUPATIONAL PERFORMANCE</td>
<td>3</td>
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<tr>
<td>OCTH 530S</td>
<td>OCCUPATIONAL PERFORMANCE AND MENTAL HEALTH</td>
<td>4</td>
</tr>
<tr>
<td>OCTH 531S</td>
<td>OCCUPATIONAL PERFORMANCE AND ADULTS</td>
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<td>OCTH 532S</td>
<td>OCCUPATIONAL PERFORMANCE AND PEDIATRICS</td>
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<tr>
<td>OCTH 540S</td>
<td>HEALTH AND WELLNESS</td>
<td>3</td>
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<tr>
<td>OCTH 541S</td>
<td>TECHNOLOGIES FOR ENABLING OCCUPATIONAL PERFORMANCE</td>
<td>3</td>
</tr>
<tr>
<td>OCTH 542S</td>
<td>LEADERSHIP AND MANAGEMENT IN OCCUPATIONAL THERAPY PRACTICE</td>
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OCTH 601S  PROFESSIONAL PROJECT I  3
OCTH 602S  PROFESSIONAL PROJECT II  3
OCTH 695S  CLINICAL FIELDWORK LEVEL II (this 8 credit course must be repeated twice for a total of 16 credits.)  16

Total Credits  81

**Student Learning Outcomes—students will**

- demonstrate knowledge and skills for client-centered occupation-based evaluation and intervention to promote full societal participation of clients;
- understand and apply evidence-based strategies to inform professional practice;
- describe and apply values and ethics represented in the AOTA’s official documents;
- demonstrate leadership and research skills for promoting and advancing the profession;
- demonstrate a commitment to lifelong learning by maintaining currency in professional practice.
Physical Therapy

Dr. Dan Anton, Professor and Chair
department page (https://www.ewu.edu/chsph/programs/physical-therapy)
270 Health Sciences Building
310 N. Riverpoint Blvd.
Spokane, WA 99202-0002
509.828.1375

Faculty
Daniel C. Anton, Megan S. Chatellier, Kimberly K. Cleary, Meryl R. Gersh,
Tanya L. Kinney LaPier, Patricia R. Nelson, Richard J. Palmer, Darl W.
Vander Linden.

Graduate Degrees
Doctor of Physical Therapy (DPT)
• Physical Therapy (p. 229)

EWU Physical Therapy Department
270 Health Science Bldg.
310 N. Riverpoint Blvd.
Spokane, WA 99202-0002
509.838.1354
email (ddickerson@ewu.edu)

The curriculum is designed to prepare leaders for the profession of physical therapy whose focus of practice is to diagnose and manage movement dysfunction and enhance the physical and functional abilities of the clients they serve. The curriculum consists of 11 sequenced quarters of full-time attendance. Basic science courses and physical therapy skill courses are taught in the first academic year. A clinical internship is offered in the summer after the first academic year. In the second year clinical science courses integrate medical science knowledge through increasingly complex client scenarios. Within the clinical science courses, students address client problems in a format consistent with the five elements of patient care (examination, evaluation, diagnosis, prognosis and intervention) which are described in the Guide to Physical Therapist Practice. These elements of patient care are used to address client problems in each of the four practice patterns which include patients with musculoskeletal, neuromuscular, cardiopulmonary or integumentary disorders.

Professional seminars are embedded in the curriculum as are courses in evidence-based practice and clinical research. Students will successfully complete a comprehensive examination at the end of the second year to advance to the final three 10-week clinical internships.

Class sizes are restricted each year to ensure optimal student learning, thus enabling each student to receive comprehensive instructional and clinical experiences.

The Department of Physical Therapy is fully and unconditionally accredited by the Commission on Accreditation in Physical Therapy Education.

Admissions Requirements/Preparation
The admission process to the Doctor of Physical Therapy program is competitive. The requirements listed below are the minimum acceptable requirements to apply to the program and are not indicative of the competitive range of students generally accepted into the professional physical therapy program.

1. Qualify and apply for acceptance into Eastern Washington University Graduate Studies.
2. Complete a baccalaureate degree at an accredited institution by July 15 of the year of admission.
3. Complete the Graduate Record Examination (GRE) by December 1 of application year.
4. Complete the courses listed below, designated for the science major.
5. Please note: courses designated for nursing students, or allied health professions students, are not acceptable in lieu of the science prerequisites for science majors listed below.
6. Please note: some of these courses may require prerequisites prior to admission into the course.
7. Courses for prerequisites must be completed within seven years of admission.

Biology (Zoology) with labs to include:
1 quarter (1 semester) of Human Anatomy
1 quarter (1 semester) of Human Physiology
1 quarter (1 semester) upper division course in (300 level or above) Human or Animal Physiology (this requirement may be satisfied by a course in Exercise Physiology, offered through an Exercise Science Department).
1 quarter (1 semester) advanced course (300 level or above) of your choosing (at least 3 semester credits or 4 quarter credits) in Biology, Zoology or Exercise Science.

Recommended courses include:
Note: classes in botany, fish and wildlife biology and ecology will not satisfy this requirement.
Chemistry with labs to include: 3 quarters (2 semesters) of Chemistry
Physics with labs to include: 3 quarters (2 semesters) of Physics
Psychology or Behavioral Science: any two courses in behavioral science including psychology, sociology or anthropology
Statistics: 1 quarter (1 semester) of Statistics

Notes:
• a minimum grade ≥2.0 (C) is required to fulfill each course listed above for the course to be counted toward your prerequisite fulfillment;
• an overall prerequisite GPA ≥3.0 is required for application;
• All prerequisite coursework must be completed by August 15 of the admission year.

Courses from other institutions with a pre-Physical Therapy or Physical Therapy title will NOT count toward meeting either prerequisite or professional degree requirements;
• Biomechanics
• Cell Biology
• Developmental Biology
• Embryology
- Kinesiology
- Microbiology
- Pathology

- Complete a baccalaureate degree with a minimum overall cumulative GPA ≥3.0 and a minimum GPA in prerequisite courses ≥3.0, at the time of application and admission.

- Complete a minimum of 75 hours of work/observation/volunteer experience under the supervision of a licensed physical therapist. This experience must be verified in writing by the supervising physical therapist, whose license number must appear on the verification form included with the application materials. It is strongly recommended that you maintain contact with the physical therapists who supervised your clinical experiences so that you may call upon them to verify your experiences once you have received the verification form with the application packet. Participation in at least two different types of practice settings (e.g., acute care institutions, rehabilitation centers, pediatric centers, residential facilities, nursing homes, schools, orthopedic outpatient clinics) is required, with a minimum of 30 hours in at least one of these settings. More setting variety is encouraged.

- Have each of the following individuals complete a letter of recommendation form included in the application:
  - 2 physical therapists
  - 1 current or any former employer

- Applications for admission into the Doctor of Physical Therapy Program are available on our university website or upon request from PTCAS (http://www.ptcas.org).

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**Physical Therapy, Doctor of Physical Therapy (DPT)**

**First Year**

**Fall**

<table>
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<tr>
<td>PHTH 501</td>
<td>CLINICAL ANATOMY/PHYSIOLOGY I</td>
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<tr>
<td>PHTH 533</td>
<td>FUNCTIONAL ANATOMY I</td>
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<tr>
<td>PHTH 536</td>
<td>PT PRACTICE SEMINAR I</td>
<td>2</td>
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<tr>
<td>PHTH 540</td>
<td>PRIN EVIDENCE-BASED PRACTICE I</td>
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<tr>
<td>PHTH 546</td>
<td>INTEGUMENTARY THERAPEUTICS</td>
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<tr>
<td>PHTH 561</td>
<td>CLINICAL EDUCATION SEMINAR I</td>
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**Winter**

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<tr>
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<td>CLINICAL ANATOMY/PHYSIOLOGY II</td>
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<td>PHTH 534</td>
<td>FUNCTIONAL ANATOMY II</td>
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<td>PHTH 541</td>
<td>PRINCIPLES OF EVIDENCE-BASED PRACTICE II</td>
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<td>PHTH 554</td>
<td>DIAGNOSIS IN PHYSICAL THERAPY</td>
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<tr>
<td>PHTH 562</td>
<td>CLINICAL EDUCATION SEMINAR II</td>
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<tr>
<td>PHTH 571</td>
<td>NEUROSCIENCE</td>
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**Spring**

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<td>CLIN ANATOMY/PHYSIOLOGY III</td>
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<td>PHTH 538</td>
<td>THERAPEUTIC EXERCISE AND INTERVENTIONS</td>
<td>4</td>
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<td>PHTH 542</td>
<td>PRIN EVIDENCE-BASED PRACT  III</td>
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<td>PHTH 553</td>
<td>EDUCATIONAL ASPECTS OF PT</td>
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<td>PHTH 563</td>
<td>CLINICAL EDUCATION SEMINAR III</td>
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<tr>
<td>PHTH 572</td>
<td>APPLIED NEUROSCIENCE</td>
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<tr>
<td>PHTH 576</td>
<td>PHARMACOLOGY</td>
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**Summer**

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<tr>
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<td>PROFESSIONAL DEVELOP SEMINAR</td>
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<tr>
<td>PHTH 569</td>
<td>HEALTH CARE SYSTEMS I</td>
<td>2</td>
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<tr>
<td>PHTH 581</td>
<td>CLINICAL INTERNSHIP I</td>
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**Second Year**

**Fall**

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<td>PHTH 626</td>
<td>NEUROMUSCULAR SYSTEMS I</td>
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<td>PHTH 634</td>
<td>EXERCISE PHYSIOLOGY</td>
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<td>PHTH 636</td>
<td>PT PRACTICE SEMINAR II</td>
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<td>PHTH 661</td>
<td>CLINICAL EDUCATION SEMINAR IV</td>
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<td>PHTH 675</td>
<td>CLINICAL RESEARCH I</td>
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**Winter**

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<td>PHTH 628</td>
<td>NEUROMUSCULAR SYSTEMS III</td>
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<td>PHTH 635</td>
<td>CARDIOPULMONARY SYSTEMS</td>
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<td>PHTH 646</td>
<td>INTEGUMENTARY SYSTEMS</td>
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<td>PHTH 662</td>
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**Spring**

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<td>PHTH 641</td>
<td>MULTIPLE SYSTEMS</td>
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<td>PHTH 663</td>
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<td>PHTH 665</td>
<td>PHYSICAL THERAPY ADMIN</td>
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<tr>
<td>PHTH 680</td>
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**Summer**

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<tr>
<td>PHTH 669</td>
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**Third Year**

**Fall**

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<td>PHTH 780</td>
<td>CLINICAL INTERNSHIP II</td>
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<tr>
<td>PHTH 781</td>
<td>CLINICAL INTERNSHIP III</td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHTH 772</td>
<td>CLINICAL RESEARCH IV</td>
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<tr>
<td>PHTH 782</td>
<td>CLINICAL INTERNSHIP IV</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total Credits**

161

**Student Learning Outcomes**

- graduates are Doctors of Physical Therapy prepared to practice as generalist clinicians;
- graduates demonstrate entry-level physical therapy patient management;
- graduates communicate professionally;
- graduates demonstrate the APTA Core Value of Professional Duty.
Pre-Communication Disorders

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 341)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Lesli Cleveland, PhD, CCC-SLP, Chair
department page (http://www.ewu.edu/chsph/programs/communication-disorders)
509.828.1376
310 N. Riverpoint Blvd., Box B Spokane, WA 99202

Program Description

Individuals who have earned a baccalaureate degree in a discipline other than communication sciences and disorders can apply for the graduate program in Communication Sciences and Disorders at Eastern Washington University upon completion of a year of prerequisite courses. These prerequisite courses are intended to prepare the individual for the rigors of graduate study in the discipline. As the graduate program typically takes two years to complete, an individual having a baccalaureate degree in a different discipline can earn the master’s degree within three years. A minimum GPA > 3.00 is required for admission to the post-baccalaureate program. Students must meet the minimum GPA requirement, complete a department application and pay an application fee.

The individual would take the courses listed below during the first year of study (it is strongly suggested that the candidate apply for fall admission into the post-baccalaureate program). As the individual is taking the prerequisite courses, he/she would apply for graduate study by January 15 of the current academic year (for graduate application requirements, please see the Communication Sciences and Disorders section of this catalog). If accepted to the graduate program in Communication Sciences and Disorders, the student would complete the remaining prerequisite requirements and then enroll in graduate study in the fall term immediately following completion of the prerequisite requirements. In addition, students must complete coursework reflecting knowledge in the biological sciences, physical sciences, statistics and the social/behavioral sciences prior to beginning the program. Acceptable courses in biological sciences should emphasize a content area related to human or animal sciences. Acceptable courses in physical sciences should include physics or chemistry. Acceptable courses in social/behavioral sciences should include psychology, sociology, gerontology, anthropology or public health. Research methodology courses in communication sciences and disorders (CSD) may not be used to satisfy the statistics requirement.

It should be noted that the Communication Sciences and Disorders program operates on a semester-based academic schedule whereas the majority of the university operates on a quarter-based schedule. If the student has deficiencies in his/her academic preparation that are not related specifically to the major, those deficiencies will have to be taken during the summer when there will be no conflict between the Communication Sciences and Disorders semester-based schedule and the university’s quarter-based schedule.

Pre-communication disorders students must contact the program advisor or program coordinator BEFORE starting the application process. The application process must be completed by the end of June prior to the fall semester in which the student plans to matriculate.

Pre-Professional Program Requirements

Courses reflect semester credits.

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>CMSD 304S PHONETICS</td>
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<tr>
<td>CMSD 321S ANATOMY AND PHYSIOLOGY OF SPEECH PRODUCTION</td>
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</tr>
<tr>
<td>CMSD 331S LANGUAGE DEVELOPMENT</td>
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</tr>
<tr>
<td>CMSD 371S HEARING AND HEARING DISORDERS</td>
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</tr>
<tr>
<td>CMSD 422S NEUROANATOMY</td>
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</tr>
<tr>
<td>CMSD 473S AURAL REHABILITATION</td>
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<table>
<thead>
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<tbody>
<tr>
<td>CMSD 320S SPEECH AND HEARING SCIENCES</td>
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<td>CMSD 357S LANGUAGE IMPAIRMENT</td>
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<tr>
<td>CMSD 358S SPEECH SOUND DISORDERS</td>
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<td>CMSD 372S AUDIOMETRY</td>
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<td>CMSD 461S CLINICAL METHODS</td>
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Total Credits 32
Public Health

Frank Houghton, Graduate Program Director
program page (https://www.ewu.edu/chsph/programs/public-health)
EWU Spokane, 668 N. Riverpoint Blvd. Spokane, WA 99202-1661
509.828.1218

Faculty
Olugbemiga Ekundayo, Frank Houghton, Michael Pickering.

Undergraduate Degrees
Bachelor of Science (BS)
• Public Health (p. 163)

The undergraduate program is located in the College of Arts, Letters and Education in the Department of Physical Education, Health and Recreation.

Graduate Degrees
Master of Public Health (MPH)
• Public Health (p. 231)

Graduate Program
In line with the mission of Eastern Washington University the Master of Public Health prepares future public health leaders to manage, develop and reorient health services to combat health inequalities and promote access and inclusion. The course focuses on developing leadership skills in an engaged, practical and applied manner across the full spectrum of population health domains.

Public Health is a dynamic field recognized for critical and rapidly expanding needs in policy development and research. Professionals are needed to lead change to address critical health and community policy issues. Professionals must be ready to promote effective community response and change, create and support effective health programs and actions to meet critical needs within the health profession and many related fields. An interdisciplinary program bringing together multiple disciplines to promote a broad intellectual framework for problem solving the challenges and emerging issues faced in public health is proposed. This program is built on the core functions of public health: assessment, policy development/implementation and assurance.

The Master of Public Health program is designed to provide the student with the skills to work with the following:
• a rapidly changing political, social and economic environment;
• funding from a variety of sources;
• issues related to disparity in health status for a variety of populations;
• new and innovative public and private partnerships;
• a culturally and ethnically diverse workforce;
• organizational challenges both within and outside the public health arena;
• program development and service delivery.

In addition to a solid core foundation in public health, this program focuses on public health leadership. An elective option offers a unique focus on public health allowing the student to choose an additional focus.

To apply for this program, an individual must have an undergraduate degree and grade point average ≥3.0 meeting the Eastern Washington University graduate school requirements. Students must be computer literate to include word processing, spreadsheet construction and Internet applications. The Computer Literacy Program test (CLP) for the university can fulfill that requirement. Also a computer literacy or a computer-intensive course completed at the undergraduate level will satisfy this requirement. A documented professional experience with word processing, spreadsheets and Internet applications may satisfy the requirement, particularly for mid-career professionals who may not have had an undergraduate course computer intensive or computer literacy course on their transcripts but have worked for several years in a position that is computer intensive.

Students must have documented a recent statistics or biostatistics course to include basic probability concepts, organizing and summarizing data, sampling distributions, hypothesis testing, simple linear regression and correlation and analysis of variance. DSCI 245 Data Analysis for Business (4) or its equivalent fulfill this requirement. Students must also have completed an upper level technical/scientific writing course.

The internship for the program aims to develop public health skills, knowledge and competencies through practice. As part of this experience students develop a portfolio to display their work that addresses specific competency areas within the program. The portfolio serves as a formative assessment of progress through the MPH towards public health competencies. Prior to an internship students must have a student membership in national professional organization that relates to public health.

In order to successfully graduate from the program students must successfully complete a research project which serves as a comprehensive examination, a graduate school requirement.

The intent of the program is to meet the criteria set out by the Council on Education for Public Health (CEPH). Competencies for the program incorporate those identified by the Association of Schools and Programs of Public Health (ASPPH).

Public Health, Master of Public Health (MPH)

Taught on the semester system.

Note:
• to apply for this program, an individual must have an undergraduate degree and GPA ≥3.0 meeting the EWU graduate school requirements;

<table>
<thead>
<tr>
<th>Required Core</th>
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<tbody>
<tr>
<td>HSAD 500S</td>
<td>HEALTH SYSTEMS</td>
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<tr>
<td>HSAD 510S</td>
<td>HEALTH LAW AND FINANCE</td>
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<tr>
<td>HSAD 520S</td>
<td>ADMINISTRATION AND LEADERSHIP IN HEALTH SERVICES</td>
</tr>
<tr>
<td>HSAD 540S</td>
<td>HEALTH POLICY</td>
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<tr>
<td>PUBH 500S</td>
<td>ORIENTATION TO PUBLIC HEALTH 1</td>
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### Public Health, Master of Public Health (MPH)

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<tr>
<td>PUBH 560S</td>
<td>FOUNDATIONS IN EPIDEMIOLOGY</td>
<td>3</td>
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<tr>
<td>PUBH 561S</td>
<td>SOCIAL AND BEHAVIORAL EPIDEMIOLOGY AND ISSUES IN PUBLIC HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 563S</td>
<td>RESEARCH, BIOSTATISTICS AND OTHER WAYS OF 'KNOWING'</td>
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</tr>
<tr>
<td>PUBH 564S</td>
<td>ENVIRONMENTAL AND OCCUPATIONAL EPIDEMIOLOGY AND RESPONSE</td>
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<tr>
<td>PUBH 565S</td>
<td>COMBATTING HEALTH INEQUALITIES</td>
<td>3</td>
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<tr>
<td>PUBH 572S</td>
<td>HEALTH RISK MANAGEMENT AND RESPONSE</td>
<td>3</td>
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<tr>
<td>PUBH 573S</td>
<td>HEALTH PROGRAM PLANNING, EVALUATION AND PROCESS IMPROVEMENT</td>
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<tr>
<td>PUBH 582S</td>
<td>PROFESSIONALISM IN PUBLIC HEALTH 1</td>
<td>1</td>
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<td>PUBH 583S</td>
<td>PROFESSIONALISM IN PUBLIC HEALTH 2</td>
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<td>PUBH 585S</td>
<td>RESEARCH PROJECT PROPOSAL 1</td>
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<td>PUBH 586S</td>
<td>RESEARCH PROJECT PREPARATION 2</td>
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<td>PUBH 587S</td>
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<tr>
<td>PUBH 595S</td>
<td>INTERNSHIP</td>
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**Required Electives—choose one from the following**

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<tr>
<td>HSAD 598S</td>
<td>SEMINAR IN HEALTH SERVICES ADMINISTRATION</td>
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<tr>
<td>PUBH 574S</td>
<td>SEMINAR IN PUBLIC HEALTH PREPAREDNESS</td>
</tr>
<tr>
<td>PUBH 594S</td>
<td>SEMINAR IN HEALTH PROMOTION</td>
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<tr>
<td>PUBH 596S</td>
<td>EXPERIMENTAL</td>
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<tr>
<td>PUBH 597S</td>
<td>WORKSHOP IN PUBLIC HEALTH</td>
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<td>PUBH 598S</td>
<td>SEMINAR IN EPIDEMIOLOGY</td>
</tr>
<tr>
<td>PUBH 599S</td>
<td>INDEPENDENT STUDY</td>
</tr>
</tbody>
</table>

**Total Credits** 54

**Student Learning Objectives—students will**

- develop leadership and managerial skills in public health;
- assess population health needs;
- develop public health research skills;
- understand and apply evidence-based strategies to inform professional practice;
- develop cultural sensitivity for working with diverse populations;
- develop professional communication skills;
- demonstrate a commitment to lifelong learning.
COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Departments, programs and degrees are listed on the navigation bar. CSTEM home page (http://www.ewu.edu/cstem)
Biology

Margaret A. O’Connell (moconnell@ewu.edu), Chair
509.359.6812

Rebecca L. Brown (http://catalog.ewu.edu/science-technology-engineering-mathematics/biology/%20mailto:%20r棕色@ewu.edu), Graduate Admissions
509.359.2528

department page (https://www.ewu.edu/cstem/programs/biology)
258 Science Building
email (mailto)
509.359.2339

Faculty

Undergraduate Degrees
Bachelor of Arts in Education (BAE)
- Biology/Secondary (p. 238)

Bachelor of Science (BS)
- Biology (p. 237)
  - Biology Major with Biotechnology Option (p. 235)
  - Biology Major with Pre-Medicine/Pre-Dentistry Option (p. 236)

Undergraduate Minors
- Biology (p. 238)
- Biology/Secondary (p. 239)

Teacher Certification/Add-on Endorsements
- General Science/Add-on Endorsement (p. 239)

Undergraduate Programs
Biology encompasses the scientific study of life. The structure and function of organisms are studied at the molecular, cellular, organismal, population and ecosystems levels. The Department of Biology prepares students for careers in a variety of biological fields including the health sciences, natural resource management, biotechnology, veterinary medicine, education, and environmental sciences.

The Department of Biology offers undergraduate programs leading to a Bachelor of Science (BS) and a Bachelor of Arts in Education (BAE) for Biology. All students are expected to work closely with their faculty advisor to determine their curriculum. The BS degree is designed for students who require a broad background in biology, along with specialized training that will prepare them for specific careers. The program is based upon a core curriculum to provide the common background. Students are required to earn a minimum grade in the introductory sequence (BIOL 171, BIOL 172, BIOL 173, BIOL 270) to ensure a solid foundation for upper division courses. Coursework for specific careers is based on selection of elective courses tailored to career choice. Degree options or advising guides to different career options including pre-medicine, pre-dentistry, pre-physical therapy, pre-physician assistant, pre-optometry, pre-medical technology, pre-pharmacy, pre-veterinary medicine, wildlife biology, fisheries biology, and botany/range science are available. The BAE degree prepares students for teaching biology in secondary education. More information on degree programs can be found at the Department of Biology website (http://www.ewu.edu/cstem/programs/biology).

Students in the Department of Biology have varied opportunities to do biology. At the introductory level, students learn the basics of how to design, conduct, and present research projects. During their final year, the senior capstone course highlights a research project. Many upper-division elective courses in biology also incorporate research projects. In addition, undergraduate students can participate in faculty research.

In coordination with the Program in Environmental Science, the Department of Biology offers an Environmental Science major with an emphasis in Environmental Biology. This major includes a core curriculum that provides students with a broad exposure to biology, chemistry, geology, statistics, and geographic information systems. More focused courses in biology provide students with expertise in their emphasis area. Motivated students have the opportunity to obtain a double major in both Environmental Science and Biology. Refer to Environmental Science section of catalogue for more information.

The Department of Biology offers minors in biology, biology/secondary, and general science/add-on endorsements.

The Department of Biology is located in a building that houses laboratories designed for instruction and research in most aspects of biology. The department maintains its own aquarium rooms, cell culture facilities, greenhouse and herbarium.

In addition to on-campus facilities, the department operates the Turnbull Laboratory for Ecological Studies on the Turnbull National Wildlife Refuge about four miles from campus. These facilities provide opportunities for research in plant and animal physiology, ecology, fisheries and wildlife biology.

Major Requirements for Biology
Upon declaring biology as a major each student should meet with an advisor as soon as possible. Students should plan to complete BIOL 171, BIOL 172, BIOL 173 and BIOL 270; CHEM 151, CHEM 152, CHEM 153 and the university English and departmental mathematics requirements in the first two years of study. Required 300-level coursework should be completed by the end of the third year. Capstone and advanced elective courses are ordinarily taken in the senior year. A minimum of 50 credits of upper biology courses are required. Only 5 credits of BIOL 399 or BIOL 499 and 5 credits of BIOL 395 or BIOL 495 will be allowed toward the electives for the BS in Biology, General Option. The following biology courses will not fulfill elective requirements: BIOL 100, BIOL 232, BIOL 233, BIOL 234, BIOL 235, BIOL 390.

Those students planning graduate study are encouraged to take courses in physics, organic chemistry, calculus, statistics and a directed study (research) course in biology.
Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees
Master of Science (MS)
- Biology (p. 237)

Graduate Program
Rebecca L. Brown, Admissions Coordinator
509.359.2528

Camille F. McNeely, Graduate Service Appointment Coordinator
509.359.7049

David Daberkow, Candidacy Coordinator
509.359.2259

Eastern Washington University Department of Biology offers a Master of Science in Biology.

The Master of Science in Biology program provides a demanding and rewarding experience in biology, leading to competent scholarship and research capability. The department emphasizes research as a basic component of graduate study. A variety of research specialties are available within the department, including limnology, stream ecology, riparian ecology, fisheries biology, embryology, exercise physiology, neurobiology, wildlife biology, animal physiology, mycology, plant ecology, microbiology and immunology. More information on faculty research interests may be obtained by writing the appropriate graduate program advisor or accessing our website. (http://www.ewu.edu/cstem/programs/biology) Graduates of the biology program either continue in PhD programs, or are employed in various biological fields with federal, state and local agencies, environmental consulting firms, public and private schools or private industry.

The Master of Science in Biology curriculum includes core courses in Biological Research Methods; Graduate Seminar; Current Topics in Ecology/Evolution, Physiology, Cell/Molecular Biology, and Growth of Biological Thought; elective courses in advanced topics; and research thesis.

In addition, an interdisciplinary master's program is available that can incorporate biology (see separate catalog listing).

The Department of Biology is housed in a remodeled and well-equipped facility. The department administers the nearby Turnbull Laboratory for Ecological Studies on the Turnbull National Wildlife Refuge.

Graduate service appointments, with resident and non-resident tuition waivers, are available on a competitive basis to qualified graduate students. Nonresident students who do not qualify for a graduate service appointment can apply for nonresident tuition scholarship waivers. Other financial support is possible through work-study programs, hourly employment by the department or faculty research grants. All applicants are encouraged to submit an application for federal student aid which, for incoming students, must be received by the EWU Financial Aid Office by February 15 for support in the following academic year. Applications are available through the EWU Financial Aid Office.

Entrance Requirements and Preparation
To be admitted to the Master of Science in Biology program, applicants must first meet all requirements for admission to the Graduate School as outlined elsewhere in this catalog. Prospective MS applicants must hold a four-year baccalaureate degree in biology or related natural science from an accredited college or university. Preparation often includes the equivalent of two quarters of organic chemistry and one quarter of statistics or calculus. Students who have deficiencies for admission or deficiencies as determined by their graduate committee may be allowed to make up deficient coursework while enrolled in graduate school. Admission to the program will be considered when applicants have:

1. completed all admission requirements for the Eastern Washington University Graduate Programs Office,
2. submitted scores from the general GRE test,
3. provided a completed supplemental application to the Department of Biology and two evaluation/recommendation forms and
4. identified an appropriate faculty research advisor willing to serve as the major professor.

Graduate students wishing to be considered for a graduate service appointment must have their completed application, including a graduate fellowship application, to the Department of Biology by February 20. Applicants not seeking teaching fellowships must have their completed application to the Department of Biology by April 1, October 15 and January 15 for admission in the fall, winter and spring quarters, respectively.

Candidacy
To be admitted to candidacy, graduate students in the Master of Science in Biology program must have:

• completed 15 credit hours (at least 10 at the 500 level) but not more than one half of the total minimum credits required for the degree;
• removed all deficiencies regarding entrance requirements (deficient coursework cannot be counted toward a degree);
• met with their graduate committee to determine an appropriate course curriculum;
• had their research proposal approved by their internal graduate committee and presented their proposal to the Department of Biology;
• submitted the completed application form with research advisor’s and second committee member’s signatures to the appropriate biology graduate candidacy coordinator;
• had their candidacy approved by the Department of Biology faculty.

Biology Major with Biotechnology Option, Bachelor of Science (BS)

Required Biology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
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<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
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<td>BIOL 173</td>
<td>BIOLOGY III</td>
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<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
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<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
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<td>BIOL 310</td>
<td>FUNDAMENTALS OF GENETICS</td>
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<td>BIOL 436</td>
<td>CELL BIOLOGY</td>
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<td>BIOL 438</td>
<td>MOLECULAR BIOLOGY</td>
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</tr>
<tr>
<td>BIOL 485</td>
<td>MOLECULAR BIOTECHNOLOGY</td>
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</tbody>
</table>
### Biology Major with Pre-Medicine/Pre-Dentistry Option, Bachelor of Science (BS)

This curriculum is recommended for students planning a career in medicine or dentistry. The schedule of classes is designed to prepare students for the aptitude examination (MCAT, DAT) which is taken during a student's junior or early senior year. Students interested in other health care professions (e.g., physical therapy, physician's assistant) need to see a department advisor to plan a curriculum.

#### Required Biology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 171</td>
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<td>BIOL 172</td>
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<td>BOTANY</td>
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<td>BIOL 303</td>
<td>INVERTEBRATE ZOOLOGY</td>
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<td>BIOL 438</td>
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<td>BIOL 334</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY III</td>
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<td>BIOL 351</td>
<td>PRINCIPLES OF ANIMAL PHYSIOLOGY</td>
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<td>BIOL 352</td>
<td>PRINCIPLES OF PLANT PHYSIOLOGY</td>
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<td>PRINCIPLES OF MICROBIAL PHYSIOLOGY</td>
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<tr>
<td>PHYS 152</td>
<td>GENERAL PHYSICS II</td>
<td></td>
</tr>
<tr>
<td>PHYS 133</td>
<td>INTRODUCTORY PHYSICS III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 153</td>
<td>GENERAL PHYSICS III</td>
<td></td>
</tr>
<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>INSTRUMENTATION LAB I</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 124

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- demonstrate ability to evaluate journal articles from the primary literature.

### Biology Major with Pre-Medicine/Pre-Dentistry Option, Bachelor of Science (BS)

**Required Biology Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
<td>5</td>
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<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>FUNDAMENTALS OF GENETICS</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 490</td>
<td>SENIOR CAPSTONE</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
<td></td>
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<tr>
<td>BIOL 302</td>
<td>BOTANY</td>
<td></td>
</tr>
<tr>
<td>BIOL 303</td>
<td>INVERTEBRATE ZOOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 304</td>
<td>VERTEBRATE ZOOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 436</td>
<td>CELL BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 438</td>
<td>MOLECULAR BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 334</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY III</td>
<td></td>
</tr>
<tr>
<td>BIOL 351</td>
<td>PRINCIPLES OF ANIMAL PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 352</td>
<td>PRINCIPLES OF PLANT PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 353</td>
<td>PRINCIPLES OF MICROBIAL PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
<td></td>
</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>GENERAL CHEMISTRY</td>
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</tr>
<tr>
<td>CHEM 351</td>
<td>ORGANIC CHEMISTRY</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 352</td>
<td>ORGANIC CHEMISTRY</td>
<td>4</td>
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<tr>
<td>CHEM 353</td>
<td>ORGANIC CHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 372</td>
<td>ORGANIC CHEM LABORATORY I</td>
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</tr>
<tr>
<td>CHEM 471</td>
<td>PRE-MEDICAL, DENTAL, VETERINARY AND PHARMACY PREPARATION</td>
<td>1</td>
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<tr>
<td>CHEM 480</td>
<td>BIOCHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 481</td>
<td>INTERMEDIARY METABOLISM</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>INTRODUCTORY PHYSICS II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 133</td>
<td>INTRODUCTORY PHYSICS III</td>
<td>4</td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).
For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- demonstrate knowledge of evolution, diversity of life, and form and function of living organisms;
- interpret observations through the creation, testing, analysis of hypotheses;
- design laboratory or field experiments;
- inspect data and apply basic statistics to their analysis and communication.
- Write reports and prepare and deliver oral reports that:
  1. demonstrate ability to use scientific journals, periodicals, and electronic media to access current biological information;
  2. demonstrate ability to evaluate journal articles from the primary literature.

**Biology Major, Bachelor of Science in Biology (BS)**

**Required Biology Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
<td>5</td>
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<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>FUNDAMENTALS OF GENETICS</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 490</td>
<td>SENIOR CAPSTONE</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one of the following 5

**Electives—21 of 36 credits must be in Biology, non-Biology electives must be approved by faculty advisor.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 436</td>
<td>CELL BIOLOGY</td>
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</tr>
<tr>
<td>BIOL 438</td>
<td>MOLECULAR BIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 439</td>
<td>BIODIVERSITY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>ECOLOGY</td>
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<tr>
<td>BIOL 460</td>
<td>HEMATOLOGY</td>
<td>5</td>
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<tr>
<td>BIOL 470</td>
<td>NEUROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 473</td>
<td>MUSCLE PHYSIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 477</td>
<td>EMBRYOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>BOTANY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>INVERTEBRATE ZOOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 304</td>
<td>VERTEBRATE ZOOLOGY</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Supporting Courses</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 161</td>
<td>CALCULUS I</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
</tbody>
</table>
| Electives—21 of 36 credits must be in Biology, non-Biology electives must be approved by faculty advisor. | | 5

**Biology, Master of Science (MS)**

**Teaching:** All Master’s of Science students in biology are required to either teach at least one quarter as a paid teaching assignment or arrange a teaching experience in consultation with their graduate committee. Students who do not have a paid teaching assignment may arrange to receive BIOL 595 credit for the development and execution of this teaching experience.

**Final Comprehensive Examination:** The final comprehensive examination for the Master’s of Science in biology consists of a research seminar and an oral defense of the master’s thesis presented to the department. Immediately following the student’s seminar, an oral examination is administered by the student’s committee, which is composed of two or
three departmental faculty members and a faculty member appointed by the Graduate Programs office. The focus of the examination is the student’s thesis and general biology knowledge.

**Graduate Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 500</td>
<td>RESEARCH SEMINAR (must be repeated)</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 510</td>
<td>BIOLOGICAL RESEARCH METHODS I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 511</td>
<td>BIOLOGICAL RESEARCH METHODS II</td>
<td>4</td>
</tr>
</tbody>
</table>

Plus any three of the following (6 credits, though additional current topics may be taken for elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 512</td>
<td>CURRENT TOPICS IN PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 513</td>
<td>CURRENT TOPICS IN CELL AND MOLECULAR BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 514</td>
<td>CURRENT TOPICS IN ECOLOGY AND EVOLUTION</td>
<td></td>
</tr>
<tr>
<td>BIOL 515</td>
<td>GROWTH OF BIOLOGICAL THOUGHT</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

To be determined in consultation with student's graduate committee. All 400 and 500 level courses may be used as electives; if a course is stacked as a 400- or 500-level course, students must enroll at the 500-level.

**Thesis**

To be determined in consultation with student's graduate committee. All Master’s of Science in Biology students are required to conduct original research toward their Master's thesis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 600</td>
<td>THESIS RESEARCH (must be repeated)</td>
<td>14</td>
</tr>
</tbody>
</table>

Total Credits 46

**Student Learning Outcomes—students will**

- write a research proposal that demonstrates the ability to determine the veracity and value of published information;
- conduct research project, analyze data, and write thesis;
- present completed research in an open forum seminar with question/answer session.

**Biology Minor**

This minor does not meet the endorsement requirement for teachers.

**Required Biology Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**—choose additional credits of upper-division biology courses.

Total Credits 31-33

**Biology/Secondary Major, Bachelor of Arts in Education (BAE)**

This major satisfies the endorsement requirements for grades 5–12.

**Notes:**

- BAE students must complete both the courses below and the secondary education core courses;
- the option requires more than 12 quarters to complete at 15 credits per quarter.

**Required Secondary Education Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION</td>
<td>7</td>
</tr>
<tr>
<td>&amp; EDUC 303</td>
<td>FOUNDATIONS OF ASSESSMENT</td>
<td></td>
</tr>
<tr>
<td>&amp; EDUC 309</td>
<td>FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
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<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
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<tr>
<td>EDUC 426</td>
<td>SECONDARY STUDENT TEACHING 7-12</td>
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<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
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<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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**Required Biology Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 171</td>
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<td>BIOL 172</td>
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<td>BIOL 173</td>
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<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>BOTANY</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>FUNDAMENTALS OF GENETICS</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 340</td>
<td>BIOLOGY AND SOCIETY</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 423</td>
<td>EVOLUTION</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>ECOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 441</td>
<td>ECOLOGY LAB</td>
<td>2</td>
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Choose one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 303</td>
<td>INVERTEBRATE ZOOLOGY</td>
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</tr>
<tr>
<td>BIOL 304</td>
<td>VERTEBRATE ZOOLOGY</td>
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</table>

Choose one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 334</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY III</td>
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<tr>
<td>BIOL 351</td>
<td>PRINCIPLES OF ANIMAL PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 352</td>
<td>PRINCIPLES OF PLANT PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BIOL 353</td>
<td>PRINCIPLES OF MICROBIAL PHYSIOLOGY</td>
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</table>

**Required Supporting Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 390</td>
<td>BIOLOGY TEACHING METHODS</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
<td></td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
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</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 122-123

For information on General Education, see Undergraduate Degree (p. 39).
Student Learning Outcomes—students will

• explain the disciplinary core ideas of biology and can guide the learning of others in key principles of biology outlined in the Next Generation Science Standards;
• apply science and engineering practices in NGSS;
• incorporate instructional materials and teaching strategies to a community of diverse students;
• explain how cross-cutting ideas bridge disciplinary boundaries, uniting core ideas throughout the fields of science and engineering;
• appropriately respond to potential safety hazards in different learning environments, e.g., laboratory, classroom, field.

Biology/Secondary Minor

Margaret A. O’Connell (moconnell@ewu.edu), Chair
509.359.6812

Rebecca L. Brown (rbrown@ewu.edu), Graduate Admissions
509.359.2528

department page (https://www.ewu.edu/cstem/programs/biology)
258 Science Building
email (mailto)
509.359.2339

This minor satisfies the endorsement for grades 5-12.

Required Biology Courses

| BIOL 171  | BIOLOGY I          | 5 |
| BIOL 172  | BIOLOGY II         | 5 |
| BIOL 173  | BIOLOGY III        | 5 |
| BIOL 270  | BIOLOGICAL INVESTIGATION | 3 |
| BIOL 310  | FUNDAMENTALS OF GENETICS | 5 |
| BIOL 340  | BIOLOGY AND SOCIETY | 2 |
| BIOL 423  | EVOLUTION          | 5 |
| BIOL 440  | ECOLOGY            | 4 |
| BIOL 441  | ECOLOGY LAB        | 2 |

Choose one of the following 5

| BIOL 301  | MICROBIOLOGY      |
| BIOL 302  | BOTANY            |
| BIOL 303  | INVERTEBRATE ZOOLOGY |
| BIOL 304  | VERTEBRATE ZOOLOGY |

Required Supporting Courses

| BIOL 380  | DATA ANALYSIS FOR BIOLOGISTS | 5 |
| or MATH 141 | PRECALCULUS I                |
| or MATH 380 | ELEMENTARY PROBABILITY AND STATISTICS |
| BIOL 390  | BIOLOGY TEACHING METHODS    | 2 |
| SCED 390  | SCIENCE TEACHING METHODS    | 2 |

Total Credits 50

Student Learning Outcomes—students will

• explain the disciplinary core ideas of biology and guide the learning of others in key principles of biology outlined in the Next Generation Science Standards;

General Science/Add-on Endorsement

For students who currently possess a Washington State Teaching Certificate.

• This add-on satisfies the General Science endorsement and allows teachers to teach any science grades 5—12.
• To improve their marketability as science teachers, students may wish to complete this option in addition to their BAE in Biology, Chemistry, Earth and Space Science or Physics.

Individuals with an endorsement in one of the sciences can receive a General Science Endorsement if they are successful in passing the General Science West E exam. However, we recommend taking the following courses in order to increase the likelihood of passing the exam.

Required Courses

| BIOL 171  | BIOLOGY I          | 5 |
| BIOL 172  | BIOLOGY II         | 5 |
| BIOL 173  | BIOLOGY III        | 5 |
| CHEM 151  | GENERAL CHEMISTRY  | 5 |
| CHEM 152  | GENERAL CHEMISTRY  | 5 |
| CHEM 153  | GENERAL CHEMISTRY  | 5 |
| GEGO 314  | WEATHER AND CLIMATE | 5 |
| GEOL 120  | PHYSICAL GEOLOGY - THE SOLID EARTH | 5 |
| GEOL 121  | PHYSICAL GEOLOGY - SURFICIAL PROCESSES | 5 |
| PHYS 121  | DESCRIPTIVE ASTRONOMY | 5 |
| PHYS 131  | INTRODUCTORY PHYSICS I | 4 |
| PHYS 132  | INTRODUCTORY PHYSICS II | 4 |
| PHYS 161  | MECHANICS LABORATORY | 1 |
| PHYS 162  | HEAT AND OPTICS LABORATORY | 1 |

Program will determine the appropriate Teaching Methods courses. 5

| BIOL 390  | BIOLOGY TEACHING METHODS |
| CHEM 390  | CHEMICAL METHODS IN SECONDARY SCHOOL |
| GEOL 390  | EARTH SCIENCE TEACHING METHODS |
| or GEGO 390 | EARTH SCIENCE TEACHING METHODS |
| PHYS 390  | PHYSICS TEACHING METHODS |
| SCED 390  | SCIENCE TEACHING METHODS |

Total Credits 65
Chemistry and Biochemistry

Robin McRae, Chair
department page (https://www.ewu.edu/cstem/programs/chemistry)
226 Science Bldg.
509.359.2798

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
• Chemistry/Biochemistry Major with General Option (p. 242)

Bachelor of Arts in Education (BAE)
• Chemistry/Biochemistry/Secondary Major (p. 245)

Bachelor of Science (BS)
• Chemistry/Biochemistry Major with Biochemistry Option (p. 240)
• Chemistry/Biochemistry Major with Forensic Science Option (p. 241)
• Chemistry/Biochemistry Major with Pre-Med/Pre-Dent/Pre-Vet Option (p. 242)
• Chemistry/Biochemistry Major with Professional Option (p. 243)
• Chemistry/Biochemistry Major with Standard Option (p. 244)

Undergraduate Minors
• Chemistry/Biochemistry (p. 245)
• Chemistry/Biochemistry Secondary (p. 245)
• Environmental Chemistry (p. 246)

Teacher Certification/Add-on Endorsements
• General Science/Add-on Endorsement (p. 246)

Undergraduate Programs
Chemistry occupies a unique position within the modern sciences. Ultimately, most of the phenomena in the biological, geological, physical, environmental and medical sciences can be expressed in terms of the chemical and physical behavior of atoms and molecules. Because of chemistry’s key role, majors in chemistry and biochemistry are well prepared to pursue careers in a wide variety of disciplines.

The department offers programs leading to the Bachelor of Science and the Bachelor of Arts. These programs prepare students for careers in chemistry, biochemistry, biotechnology, medicine and related fields, forensic science, environmental science and education. The department’s professional BS option is approved by the American Chemical Society. BS degrees are recommended for students planning professional careers in chemistry or related areas, while BA degrees are recommended for students with other career goals.

Students majoring in chemistry have the opportunity to engage in research projects with department faculty and to gain experience with modern instrumental techniques including gas and liquid chromatography, ultra-violet, visible, infra-red, Raman, fluorescence, and atomic absorption spectrophotometry; nuclear magnetic resonance; and x-ray diffraction. Upon graduation, our students are knowledgeable, experienced and independent laboratory workers.

General Admissions Requirements for Chemistry and Biochemistry: students considering a major in Chemistry and Biochemistry should complete a high school chemistry course and mathematics courses through precalculus.

General Admissions Requirements for Transfer Students: students transferring from other institutions are urged to consult with the department chair to plan their Eastern program of study.

Admissions Requirements for Chemistry Majors: Chemistry courses must be taken in proper sequence and with certain prerequisites satisfied. To graduate within four years, chemistry majors must take CHEM 151, CHEM 152 and CHEM 153 during their freshman year. The physics and mathematics supporting courses must also be started without delay. Students should complete the required calculus and physics courses prior to their junior year in order to have prerequisites for upper division chemistry courses. Completion of a computer programming course is recommended before taking CHEM 431.

Academic Policy: due to the cumulative nature of chemistry courses, the department strongly recommends that students receive a grade ≥2.0 in all prerequisite chemistry courses.

Information Regarding Pre-Pharmacy School Courses: students interested in this pre-professional program should contact a departmental advisor regarding the curriculum, application procedures and professional aptitude examinations.

Graduate Program
The Department of Chemistry does not offer a graduate degree program but does offer graduate-level coursework.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification

Chemistry/Biochemistry Major with Biochemistry Option, Bachelor of Science (BS)
This program is recommended for students planning to go directly into professional fields of biochemistry, for students planning to attend graduate school in biochemistry, molecular biology or pharmacology and for students planning to enter professional schools such as medicine, veterinary medicine or pharmacy.

Note: the above option will require more than 12 terms (or 4 years) to complete at an average of 15 credits per term.

Required Courses
CHEM 151 GENERAL CHEMISTRY 5
CHEM 152 GENERAL CHEMISTRY 5
student Learning Outcomes—students will

• demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
• demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
• demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
• demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
• demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

Chemistry/Biochemistry Major with Forensic Science Option, Bachelor of Science (BS)

The forensic science option prepares students for entry-level positions in state and federal forensic science labs as well as for graduate and professional schools. Competitive internships at regional forensic labs are integrated into the curriculum along with research and independent study. Students must complete 45 hours of specified core courses (see footnote1) with a combined minimum GPA ≥3.0 before being eligible to declare the forensic major. For all internships with law enforcement agencies, students will be required to pass a thorough background check. It is assumed that the student will enter the program ready to take MATH 161. To finish in four years, students must take an average load of more than 15 credits per quarter.

Required Chemistry Courses

CHEM 153 GENERAL CHEMISTRY  5
CHEM 304 QUANTITATIVE ANALYSIS  6
CHEM 351 ORGANIC CHEMISTRY  4
CHEM 352 ORGANIC CHEMISTRY  4
CHEM 353 ORGANIC CHEMISTRY  3
CHEM 372 ORGANIC CHEM LABORATORY I  3
CHEM 421 PHYSICAL CHEMISTRY  4
CHEM 422 PHYSICAL CHEMISTRY  3
CHEM 431 PHYSICAL CHEMISTRY LABORATORY  1
CHEM 480 BIOCHEMISTRY  5
CHEM 481 INTERMEDIARY METABOLISM  5
CHEM 482 INTEGRATED TOPICS IN BIOCHEMISTRY AND BIOPHYSICS  3
CHEM 483 BIOCHEMISTRY LABORATORY  2
CHEM 484 BIOCHEMISTRY LABORATORY  2
CHEM 491 SENIOR THESIS  4-6
or CHEM 490 SENIOR CAPSTONE

Select one of the following four courses  3-5

CHEM 419 ADVANCED INORGANIC CHEMISTRY
CHEM 420 INSTRUMENTAL ANALYSIS
CHEM 423 PHYSICAL CHEMISTRY
CHEM 454 CLINICAL CHEMISTRY

Select one of the following three courses  4

CHEM 395 INTERNSHIP
CHEM 498 SEMINAR
CHEM 499 DIRECTED STUDY

Required Supporting Courses

Biol 171 BIOLOGY I  5
Biol 172 BIOLOGY II  5
Biol 173 BIOLOGY III  5
Biol 310 FUNDAMENTALS OF GENETICS  5
Biol 438 MOLECULAR BIOLOGY  5
Math 161 CALCULUS I  5
Math 162 CALCULUS II  5
Math 163 CALCULUS III  5
Phys 151 GENERAL PHYSICS I  4
Phys 152 GENERAL PHYSICS II  4
Phys 153 GENERAL PHYSICS III  4
Phys 161 MECHANICS LABORATORY  1
Phys 162 HEAT AND OPTICS LABORATORY  1
Phys 163 INSTRUMENTATION LAB I  1

Suggested—a computer programming course is strongly recommended. See your chemistry/biochemistry advisor.

Total Credits  126-130

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
• demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
BIOL 438 MOLECULAR BIOLOGY 5
CRIM 300 INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM 5
MATH 161 CALCULUS I 5
MATH 162 CALCULUS II 5
MATH 163 CALCULUS III 5
MATH 380 ELEMENTARY PROBABILITY AND STATISTICS 5
PHYS 151 GENERAL PHYSICS I 4
PHYS 152 GENERAL PHYSICS II 4
PHYS 153 GENERAL PHYSICS III 4
PHYS 161 MECHANICS LABORATORY 1
PHYS 162 HEAT AND OPTICS LABORATORY 1
PHYS 163 INSTRUMENTATION LAB I 1
Total Credits 150

Footnotes
1 Note: Core courses are to be completed before formal acceptance into the forensics major and enrollment in the forensics science internship course.
2 Note: Students are required to do research on a forensic project and to take it for 5 credits (catalog description states 4-6 credits). Projects must be approved by the forensic science program advisor.

Suggested Supporting Courses
BIOL 301 MICROBIOLOGY 5
CMST 201 PUBLIC SPEAKING 5
CRIM 304 FORENSIC INQUIRY 5
POLI 306 BASIC CONCEPTS OF CRIMINAL LAW 5
TCOM 205 INTRODUCTION TO TECHNICAL COMMUNICATION 5

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
• demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
• demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
• demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
• demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

Chemistry/Biochemistry Major with General Option, Bachelor of Arts (BA)

This program features less concentration in chemistry than the bachelor of science and is not intended to prepare students for employment as a professional chemist.

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required for this major;

• a minor is advised but not required for this option.

Required Courses
CHEM 151 GENERAL CHEMISTRY 5
CHEM 152 GENERAL CHEMISTRY 5
CHEM 153 GENERAL CHEMISTRY 5
CHEM 304 QUANTITATIVE ANALYSIS 6
CHEM 351 ORGANIC CHEMISTRY 4
CHEM 352 ORGANIC CHEMISTRY 4
CHEM 372 ORGANIC CHEM LABORATORY I 3
CHEM 421 PHYSICAL CHEMISTRY 4
CHEM 422 PHYSICAL CHEMISTRY 3
CHEM 431 PHYSICAL CHEMISTRY LABORATORY 1
CHEM 432 PHYSICAL CHEMISTRY LABORATORY 2
CHEM 491 SENIOR THESIS 4-6
or CHEM 490 SENIOR CAPSTONE

Required Supporting Courses
MATH 161 CALCULUS I 5
MATH 162 CALCULUS II 5
MATH 163 CALCULUS III 5
PHYS 151 GENERAL PHYSICS I 4
PHYS 152 GENERAL PHYSICS II 4
PHYS 153 GENERAL PHYSICS III 4
PHYS 161 MECHANICS LABORATORY 1
PHYS 162 HEAT AND OPTICS LABORATORY 1
PHYS 163 INSTRUMENTATION LAB I 1
Electives—Select 300-level or above Chemistry and Biochemistry courses (exclusive of CHEM 390) 4

Suggested Supporting Course—see your chemistry/biochemistry advisor.

Completion of a computer programming course is strongly recommended.

Total Credits 80-82

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical, and physical chemistry;
• demonstrate sufficient preparation in chemistry to successfully compete in a science-related career;
• demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
• demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
• demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

Chemistry/Biochemistry Major with Pre-Med/Pre-Dent/Pre-Vet Option, Bachelor of Science (BS)
This course of study is recommended for students planning a career in medicine, dentistry or veterinary medicine. The option also satisfies requirements for graduate study in related fields of chemical and biological integration, e.g., medicinal chemistry, pharmacology, etc. With respect to medical/dental/veterinary school, coursework outlined for the initial three years is specifically designed to meet basic entrance requirements as well as provide optimum preparation for pre-entrance aptitude examinations (MCAT or DAT or GRE). Additional information can be found under Pre-professional Programs in the Fields of Study section of this catalog.

Notes:

- the following should be completed prior to, or concurrent with, taking the MCAT Exam: CHEM 151, CHEM 152, CHEM 153, CHEM 304, CHEM 351, CHEM 352, CHEM 353, CHEM 372, CHEM 373, CHEM 480, CHEM 481; BIOL 171, BIOL 172, BIOL 173, BIOL 301, BIOL 310, BIOL 490; MATH 161, MATH 162; and PHYS 151, PHYS 152, PHYS 153, PHYS 161, PHYS 162, PHYS 163.

- CHEM majors completing BIOL 490 do not need to take CHEM 491 or CHEM 491 for graduation.

- the above option will require more than 12 terms (or 4 years) to complete at an average of 15 credits per term.

- a computer programming course is strongly recommended—see your chemistry/biochemistry advisor.

**Required Courses**

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<th>Course Name</th>
<th>Credits</th>
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<td>PRE-MEDICAL, DENTAL, VETERINARY AND PHARMACY PREPARATION</td>
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<td>CHEM 152</td>
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<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
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<td>5</td>
</tr>
<tr>
<td>CHEM 304</td>
<td>QUANTITATIVE ANALYSIS</td>
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<td>CHEM 351</td>
<td>ORGANIC CHEMISTRY</td>
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<td>ORGANIC CHEM LABORATORY II</td>
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<td>CHEM 395</td>
<td>INTERNSHIP</td>
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<td>CHEM 421</td>
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<td>PRE-MEDICAL, DENTAL, VETERINARY AND PHARMACY PREPARATION</td>
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<td>CHEM 480</td>
<td>BIOCHEMISTRY</td>
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<td>CHEM 481</td>
<td>INTERMEDIARY METABOLISM</td>
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<td>CHEM 482</td>
<td>INTEGRATED TOPICS IN BIOCHEMISTRY AND BIOPHYSICS</td>
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<tr>
<td>CHEM 483</td>
<td>BIOCHEMISTRY LABORATORY</td>
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**Required Supporting Courses—The following should be completed prior to or concurrent with taking the MCAT Exam.**

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<td>BIOL 173</td>
<td>BIOLOGY III</td>
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**Suggested Supporting Courses**

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<td>CHEM 454</td>
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<td>CHEM 499</td>
<td>DIRECTED STUDY</td>
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<td>PHIL 445</td>
<td>BIOMEDICAL ETHICS</td>
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<tr>
<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
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</tbody>
</table>

Total Credits: 134-145

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
- demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
- demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
- demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
- demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

**Chemistry/Biochemistry Major with Professional Option, Bachelor of Science (BS)**

This program is approved by the American Chemical Society and it is recommended for those students who plan to become professional chemists. It provides a broad and strong background in the fundamentals of chemistry and an excellent foundation for graduate school or a career in industry.

**Notes:**

- a computer programming course is strongly recommended—see your chemistry/biochemistry advisor;
- the department strongly recommends that students receive a grade ≥2.0 in all prerequisite chemistry courses.

**Required Courses**
Chemistry/Biochemistry Major with Standard Option, Bachelor of Science (BS)

This major program provides the normal preparation in chemistry for students planning employment as chemists and considerable chemical background in preparation for careers outside chemistry. It is appropriate for some students who plan to enter professional schools such as dentistry, or public and environmental health.

Notes:

- a computer programming course is strongly recommended—see your chemistry/biochemistry advisor;
- the department strongly recommends that students receive a grade ≥2.0 in all prerequisite chemistry courses.

Required Courses

- CHEM 151 GENERAL CHEMISTRY 5
- CHEM 152 GENERAL CHEMISTRY 5
- CHEM 153 GENERAL CHEMISTRY 5
- CHEM 304 QUANTITATIVE ANALYSIS 6
- CHEM 319 MODERN INORGANIC CHEMISTRY 4
- CHEM 351 ORGANIC CHEMISTRY 4
- CHEM 352 ORGANIC CHEMISTRY 4
- CHEM 353 ORGANIC CHEMISTRY 3
- CHEM 372 ORGANIC CHEM LABORATORY I 3
- CHEM 373 ORGANIC CHEM LABORATORY II 3
- CHEM 419 ADVANCED INORGANIC CHEMISTRY 5
- CHEM 420 INSTRUMENTAL ANALYSIS 5
- CHEM 421 PHYSICAL CHEMISTRY 4
- CHEM 422 PHYSICAL CHEMISTRY 3
- CHEM 423 PHYSICAL CHEMISTRY 3
- CHEM 431 PHYSICAL CHEMISTRY LABORATORY I 1
- CHEM 432 PHYSICAL CHEMISTRY LABORATORY II 2
- CHEM 433 PHYSICAL CHEMISTRY LABORATORY II 2
- CHEM 480 BIOCHEMISTRY 5
- CHEM 491 SENIOR THESIS 4-6

Choose from the following courses

- CHEM 498 SEMINAR 3
- CHEM 499 DIRECTED STUDY 3

Required Supporting Courses

- MATH 161 CALCULUS I 5
- MATH 162 CALCULUS II 5
- MATH 163 CALCULUS III 5
- PHYS 151 GENERAL PHYSICS I 4
- PHYS 152 GENERAL PHYSICS II 4
- PHYS 153 GENERAL PHYSICS III 4
- PHYS 161 MECHANICS LABORATORY 1
- PHYS 162 HEAT AND OPTICS LABORATORY 1
- PHYS 163 INSTRUMENTATION LAB I 1

Total Credits 109-111

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
- demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
- demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
- demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
- demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.
Student Learning Outcomes—students will

- demonstrate a broad-based knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
- demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career;
- demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
- demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
- demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

Chemistry/Biochemistry Secondary Minor

This minor satisfies the endorsement for grades 5-12.

Note: some graduate courses may be substituted for electives, in consultation with advisor.

Required Courses

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<thead>
<tr>
<th>Course</th>
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<td>CHEM 390</td>
<td>CHEMICAL METHODS IN SECONDARY SCHOOL</td>
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<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
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Total Credits: 28

Chemistry/Biochemistry Minor

Required Courses

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<td>CHEM 153</td>
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</table>

Electives—choose upper-division CHEM courses (exclusive of CHEM 390)

Note: with regard to electives, CHEM 397, CHEM 497 and CHEM 597 as well as other special courses, must be approved by the department chair

Total Credits: 30

Chemistry/Biochemistry/Secondary Major, Bachelor of Arts in Education (BAE)

This major satisfies the endorsement for grades 5-12.

See the Education Department for prerequisites and additional requirements.

Secondary Education Core

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT</td>
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<tr>
<td>&amp; EDUC 303 &amp; EDUC 309</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)</td>
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<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
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<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
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<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
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<td>EDUC 420</td>
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<td>EDUC 426</td>
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<td>PSYC 304</td>
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<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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30-hour multicultural education field requirement

Required Courses

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<tr>
<td>CHEM 480</td>
<td>BIOCHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits: 126
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical and physical chemistry;
- demonstrate knowledge and skills sufficient for them to safely teach chemistry in the secondary school setting;
- demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data;
- demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
- demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

### Environmental Chemistry Minor

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 316</td>
<td>ENVIRONMENTAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 416</td>
<td>ADVANCED ENVIRONMENTAL CHEMISTRY</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives—choose from the following**

Note: only one of these courses can be a CHEM course regardless of credit hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
</tr>
<tr>
<td>BIOL 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
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<tr>
<td>BIOG 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>ECOLOGY</td>
</tr>
<tr>
<td>BIOL 441</td>
<td>ECOLOGY LAB</td>
</tr>
<tr>
<td>BIOL 442</td>
<td>CONSERVATION BIOLOGY</td>
</tr>
<tr>
<td>CHEM 304</td>
<td>QUANTITATIVE ANALYSIS</td>
</tr>
<tr>
<td>CHEM 319</td>
<td>MODERN INORGANIC CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>ORGANIC CHEMISTRY</td>
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<tr>
<td>CHEM 352</td>
<td>ORGANIC CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 372</td>
<td>ORGANIC CHEMISTRY LABORATORY I</td>
</tr>
<tr>
<td>CHEM 373</td>
<td>ORGANIC CHEMISTRY LABORATORY II</td>
</tr>
<tr>
<td>CHEM 418</td>
<td>MODERN ANALYTICAL CHEMISTRY</td>
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<tr>
<td>CHEM 419</td>
<td>ADVANCED INORGANIC CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 420</td>
<td>INSTRUMENTAL ANALYSIS</td>
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<td>CHEM 421</td>
<td>PHYSICAL CHEMISTRY</td>
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<tr>
<td>CHEM 422</td>
<td>PHYSICAL CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 423</td>
<td>PHYSICAL CHEMISTRY</td>
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<tr>
<td>CHEM 431</td>
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<td>CHEM 432</td>
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<td>CHEM 433</td>
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<td>CHEM 440</td>
<td>ADVANCED PHYSICAL CHEMISTRY</td>
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<tr>
<td>CHEM 465</td>
<td>ADVANCED ORGANIC CHEMISTRY</td>
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<tr>
<td>CHEM 480</td>
<td>BIOCHEMISTRY</td>
</tr>
<tr>
<td>ECON 457</td>
<td>NATURAL RESOURCE ECONOMICS</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>SURFACE HYDROLOGY</td>
</tr>
<tr>
<td>GEOG 317</td>
<td>RESOURCES AND CONSERVATION</td>
</tr>
</tbody>
</table>

**Total Credits** 32

---

### General Science/Add-on Endorsement

For students who currently possess a Washington State Teaching Certificate.

- This add-on satisfies the General Science endorsement and allows teachers to teach any science grades 5–12.
- To improve their marketability as science teachers, students may wish to complete this option in addition to their BAE in Biology, Chemistry, Earth and Space Science or Physics.

Individuals with an endorsement in one of the sciences can receive a General Science Endorsement if they are successful in passing the General Science West E exam. However, we recommend taking the following courses in order to increase the likelihood of passing the exam.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
</tr>
<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
</tr>
<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>GENERAL CHEMISTRY</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
</tr>
<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>DESCRIPTIVE ASTRONOMY</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>INTRODUCTORY PHYSICS II</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
</tr>
</tbody>
</table>

**Program will determine the appropriate Teaching Methods courses.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 390</td>
<td>BIOLOGY TEACHING METHODS</td>
</tr>
<tr>
<td>CHEM 390</td>
<td>CHEMICAL METHODS IN SECONDARY SCHOOL</td>
</tr>
<tr>
<td>GEOL 390</td>
<td>EARTH SCIENCE TEACHING METHODS</td>
</tr>
<tr>
<td>GEOG 390</td>
<td>EARTH SCIENCE TEACHING METHODS</td>
</tr>
<tr>
<td>PHYS 390</td>
<td>PHYSICS TEACHING METHODS</td>
</tr>
<tr>
<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
</tr>
</tbody>
</table>

**Total Credits** 65
Computer Science

department page (http://www.ewu.edu/compsci)
319 F Computing and Engineering Bldg., Cheney, WA 99004–2493
compsci@ewu.edu

Carol Taylor (ctaylor@ewu.edu), Chair
509.359.6065

Robert Lemelin (rlemelin@ewu.edu), Director of Computer Literacy
(http://www.ewu.edu/cpla)
509.359.6016
complit@ewu.edu

Stuart Steiner (ssteiner@ewu.edu), Internship Coordinator
509.359.4296

Dan Tappan (dtappan@ewu.edu), Graduate Program Advisor
509.359.7903

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Advisor
509.359.4734

Faculty

Thomas B. Capaul, R. William Clark, Kosuke Imamura, Brian A. Kamp,
Linda M. Kieffer, Robert J. Jr. Lemelin, Dan Li, Chris F. Peters, Paul H.
Schimpf, Stuart G. Steiner, Dan A. Tappan, Carol S. Taylor, Yun Tian,
Bojian Xu, Shamima Yasmin.

Undergraduate Degrees

Bachelor of Science (BCS)
• Computer Science (p. 249)

Bachelor of Science (BS)
• Computer Science (p. 250)

Undergraduate Minors
• 3D Animation (p. 248)
• Computer Applications (p. 248)
• Computer Information Systems (p. 249)
• Computer Science Programming (p. 251)
• Game Development (p. 252)
• Web Application Development (p. 252)

Undergraduate Programs

Computer Science is an exciting and rapidly evolving discipline involving
the study of computing systems and computation. Computing systems are
now a critical component in nearly every field. As computer applications have increased in number and complexity, so has the need
for specialists in computer systems and software. Research in computer science continues to broaden and extend our knowledge and provide new opportunities.

The study of computer science is a challenging and satisfying intellectual
activity that can be carried forward into graduate school and throughout
one’s life. Our graduates achieve a high degree of success in building
careers in both public and private sectors.

Facilities and Equipment

The Animation Production Studio: equipped with professional grade
software and hardware, this lab houses our motion capture system and
blue screen and offers students an excellent environment for creating
and developing quality animation, computer games and multimedia
applications.

Center for Network Computing and Cyber Security: this lab contains
support materials and hardware for computer science courses in secure
client/server network programming, web server security, network
intrusion detection and computer forensics.

Computer Architecture and Embedded Systems: resources and
equipment are available to supporting studies in architecture and
embedded systems.

Classroom Labs: these teaching labs provide hands-on instructional
capabilities for Computer Science and Computer Literacy courses.

Lower Division Computer Science Lab: this study lab supports lower
division students, staffed by peer tutors.

Upper Division Computer Science Lab: this study lab is designed to
support junior and senior level Computer Science projects in software
design; client/server application development; relational database design
and administration; and signal processing.

Opportunities for Students: upper-division majors should check
on EagleAXIS for opportunities for work-study and departmental
positions as course assistants, paper graders, or tutors.

Many of our students are able to obtain internships where the theory
and skills learned in the academic setting are put to the test. Internships
allow you to gain new knowledge and understanding of current practices.
An internship experience is an excellent opportunity to refine your career
aspirations and make valuable contacts for future employment.

All students in our programs are encouraged to join the student
chapter of the Association for Computing Machinery (ACM). This group
sponsors colloquia, field trips, programming contests and social events.
Membership in the student chapter is the beginning of a long-term
opportunity to connect with professionals in your chosen field.

Preparation: High school students wanting to pursue a major in this
department are advised to take as much mathematics as possible,
including a course or courses in your senior year. You will benefit from
computer science courses available in your high school but do not take
them at the expense of mathematics courses. You also are encouraged
to take laboratory science courses and a keyboarding course.

Community college transfer students interested in Computer Science
should pursue mathematics courses through pre-calculus or beyond,
as well as an advanced sophomore level composition course. Consult
transfer guides (http://www.ewu.edu/transferguide) to determine
whether your institution has developed agreements with Eastern for
transfer equivalencies, and which courses are equivalent for general
education requirements and courses that may apply to the major.
Contact the department for advice on selecting your preparatory
coursework. Courses taken to apply to the major should be taken late in
your community college experience, just prior to transferring to EWU.
All prospective department majors should contact the Department of Computer Science to obtain the latest information to aid in planning a program of study. See grade requirements below.

Major Declaration
Freshman and transfer students entering Eastern with an interest in the computing sciences are encouraged to declare their major as soon as practical. To declare a major, complete the declaration form (http://access.ewu.edu/Documents/Records-Reg/MajorDeclarationForm.pdf), print, sign, and bring it and official or unofficial copies of all non-EWU college-level work to a meeting with a computer science advisor. You may contact an advisor for an appointment. At the advising session you will have the opportunity to review course requirements, ask questions, prepare a quarterly schedule and finish the major declaration, which also requires agreeing to abide by the department’s Code of Ethics and Professional Conduct (http://access.ewu.edu/computer-science/code-of-ethics.xml), which is available on the department’s website.

Grade Requirements
As a computer science student, you are expected to maintain an overall university GPA ≥2.5. Each computer science course must be completed with a minimum grade ≥2.0. All supporting courses required by the department must be completed with a minimum grade ≥2.0.

Graduate Degrees
Master of Science (MS)

• Computer Science (p. 251)

• Interdisciplinary (p. 252)

Application/Admission Requirements—the petitioner must:
1. meet all Eastern Washington University requirements for admission to graduate study;
2. complete and submit the online application for graduate school (http://www.ewu.edu/grad/application-procedures);
3. submit a completed departmental questionnaire;
4. supply transcripts showing completion of coursework covering the following areas:
   • Fundamental Programming (see CSCD 210, CSCD 211)
   • C Programming & Unix Operating System (see CSCD 240)
   • Data Structures, Algorithms: (see CSCD 300, CSCD 320)
   • Relational Database Systems: (see CSCD 327)
   • Operating Systems (see CSCD 340)
   • Design Patterns and Software Engineering (see CSCD 349, CSCD 350)
   • Discrete Mathematics (see MATH 301)

If you are not taking the GRE, it is important that you indicate all grades received in these courses, or their equivalents, on your departmental questionnaire in order to prevent delays in the processing of your application.

Provide a résumé:
• if you are not a graduate of a Computer Science degree from EWU, provide two letters of recommendation, at least one from a computer science instructor or equivalent;
• submit a cover letter discussing your reasons for pursuing a master’s degree, the focus of knowledge you want to explore, and an evaluation of your ability to complete this degree;
• if you are an international student, provide a TOEFL score of 580 or greater (237 CBT, 92 iBT).

Notes:
• applicants who have not completed the readiness courses may do so as post-baccalaureate students but may also petition for probationary graduate admission when they have less than a full-time load of readiness courses to complete;
• students needing to satisfy the requirements for CSCD 320 Algorithms, CSCD 340 Operating Systems or CSCD 350 Software Engineering at EWU will first need to pass the Computer Science Advancement Programming Exam;
• elective graduate courses may have prerequisites beyond the readiness requirements above and the student is responsible for mastering prerequisites before taking such courses. If the prerequisite course is not at the senior level it cannot be counted towards the graduate degree.

3D Animation Minor
The minor provides the skills necessary to meet an increasing demand for 3D modeling and animation developers. Included is the study of 3D modeling, 3D animation, character animation, animation scripting and advanced animation tools.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 110</td>
<td>INTRODUCTION TO PROGRAMMING</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 216</td>
<td>3D MODELING and ANIMATION I</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 416</td>
<td>3D MODELING AND ANIMATION II</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 417</td>
<td>3D MODELING AND ANIMATION III</td>
<td>4</td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Computer Applications Minor
The minor will give you knowledge of a variety of computer applications. After completion of the core computer literacy courses, you select additional elective courses covering computer applications. Through choice of elective courses you can explore a variety of topics such as educational software, web page development, art, business, mathematics and technology applications.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPLA 120</td>
<td>COMPUTER APPLICATIONS LITERACY</td>
<td>5</td>
</tr>
<tr>
<td>CPLA 121</td>
<td>INTERMEDIATE COMPUTER APPLICATIONS</td>
<td>5</td>
</tr>
<tr>
<td>CPLA 215</td>
<td>INTERNET AND WWW BASICS</td>
<td>2</td>
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</table>

Electives—choose from the following courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 303</td>
<td>DIGITAL ART I</td>
<td></td>
</tr>
<tr>
<td>ART 403</td>
<td>DIGITAL ART II</td>
<td></td>
</tr>
<tr>
<td>CSCD 411</td>
<td>MULTIMEDIA TECHNIQUES</td>
<td></td>
</tr>
<tr>
<td>DESN 263</td>
<td>VISUAL COMMUNICATION DESIGN I</td>
<td></td>
</tr>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN I</td>
<td></td>
</tr>
<tr>
<td>MENG 217</td>
<td>3D PARAMETRIC COMPUTER AIDED DESIGN</td>
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</tr>
<tr>
<td>MISC 211</td>
<td>INFORMATION TECHNOLOGY IN BUSINESS</td>
<td></td>
</tr>
<tr>
<td>MISC 374</td>
<td>SPREADSHEET MODELING FOR BUSINESS</td>
<td></td>
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</tbody>
</table>
Computer Science Major, Bachelor of Computer Science (BCS)

Our Bachelor of Computer Science program provides significant formal training in database and web programming, unique internship opportunities, and team development of information system projects. The program is designed to help prepare you to realize the potential of information systems. You can enjoy a career as a systems analyst, database administrator, web developer or software engineer.

Note: no course may be used for both a requirement and an elective.

Required Computer Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 210</td>
<td>PROGRAMMING PRINCIPLES I</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 211</td>
<td>PROGRAMMING PRINCIPLES II</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 240</td>
<td>C AND UNIX PROGRAMMING</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 300</td>
<td>DATA STRUCTURES</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 320</td>
<td>ALGORITHMS</td>
<td>4</td>
</tr>
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<td>CSCD 327</td>
<td>RELATIONAL DATABASE SYSTEMS</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 330</td>
<td>COMPUTER NETWORKS</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 349</td>
<td>DESIGN PATTERNS</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 350</td>
<td>SOFTWARE ENGINEERING</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 488</td>
<td>SENIOR PROJECT</td>
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<td>CSCD 490</td>
<td>SENIOR CAPSTONE</td>
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</table>

Choose one of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CSCD 370</td>
<td>GUI PROGRAMMING</td>
</tr>
<tr>
<td>CSCD 371</td>
<td>.NET PROGRAMMING</td>
</tr>
<tr>
<td>CSCD 372</td>
<td>ANDROID MOBILE DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 373</td>
<td>iOS MOBILE DEVELOPMENT</td>
</tr>
</tbody>
</table>

Choose one of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 378</td>
<td>WEB APPLICATION DEVELOPMENT</td>
</tr>
<tr>
<td>or CSCD 379</td>
<td>.NET WEB APPLICATION DEVELOPMENT</td>
</tr>
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</table>

Required Supporting Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 212</td>
<td>INTRODUCTORY ETHICS</td>
<td>5</td>
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</tbody>
</table>

Required Focus Group: choose focus group A, B or C

Group A—Game Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 216</td>
<td>3D MODELING and ANIMATION I</td>
</tr>
<tr>
<td>CSCD 470</td>
<td>3D COMPUTER GRAPHICS PRINCIPLES</td>
</tr>
<tr>
<td>CSCD 471</td>
<td>ADVANCED 3D COMPUTER GRAPHICS</td>
</tr>
<tr>
<td>CSCD 474</td>
<td>COMPUTER GAMES DEVELOPMENT</td>
</tr>
<tr>
<td>MATH 231</td>
<td>LINEAR ALGEBRA</td>
</tr>
</tbody>
</table>

Group B—Animation

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
</tr>
<tr>
<td>CSCD 216</td>
<td>3D MODELING and ANIMATION I</td>
</tr>
<tr>
<td>CSCD 416</td>
<td>3D MODELING AND ANIMATION II</td>
</tr>
<tr>
<td>CSCD 417</td>
<td>3D MODELING AND ANIMATION III</td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
</tr>
</tbody>
</table>

Group C—any CSCD dept. approved minor

Required Electives—choose five from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 303</td>
<td>COMPUTER AND INFORMATION SECURITY</td>
</tr>
<tr>
<td>CSCD 305</td>
<td>C++ PROGRAMMING</td>
</tr>
<tr>
<td>CSCD 316</td>
<td>PRACTICAL PROBLEM SOLVING</td>
</tr>
<tr>
<td>CSCD 340</td>
<td>OPERATING SYSTEMS</td>
</tr>
<tr>
<td>CSCD 370</td>
<td>GUI PROGRAMMING</td>
</tr>
<tr>
<td>CSCD 371</td>
<td>.NET PROGRAMMING</td>
</tr>
<tr>
<td>CSCD 372</td>
<td>ANDROID MOBILE DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 373</td>
<td>iOS MOBILE DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 378</td>
<td>WEB APPLICATION DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 379</td>
<td>.NET WEB APPLICATION DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 409</td>
<td>SCIENTIFIC PROGRAMMING</td>
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<td>CSCD 416</td>
<td>3D MODELING AND ANIMATION II</td>
</tr>
<tr>
<td>CSCD 417</td>
<td>3D MODELING AND ANIMATION III</td>
</tr>
<tr>
<td>CSCD 418</td>
<td>3D MODELING AND ANIMATION IV</td>
</tr>
<tr>
<td>CSCD 420</td>
<td>AUTOMATA</td>
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<tr>
<td>CSCD 423</td>
<td>PROBABILISTIC METHODS IN COMPUTER SCIENCE</td>
</tr>
<tr>
<td>CSCD 427</td>
<td>ADVANCED DATABASE MANAGEMENT SYSTEMS</td>
</tr>
<tr>
<td>CSCD 429</td>
<td>DATA MINING</td>
</tr>
<tr>
<td>CSCD 433</td>
<td>ADVANCED COMPUTER NETWORKS</td>
</tr>
<tr>
<td>CSCD 434</td>
<td>NETWORK SECURITY</td>
</tr>
<tr>
<td>CSCD 435</td>
<td>PRINCIPLES OF PROGRAMMING LANGUAGE</td>
</tr>
<tr>
<td>CSCD 437</td>
<td>SECURE CODING</td>
</tr>
<tr>
<td>CSCD 439</td>
<td>TOPICS IN COMPUTER SCIENCE</td>
</tr>
<tr>
<td>CSCD 443</td>
<td>DISTRIBUTED MULTIPROCESSING</td>
</tr>
<tr>
<td>CSCD 445</td>
<td>GPU COMPUTING</td>
</tr>
<tr>
<td>CSCD 460</td>
<td>ADVANCED ARCHITECTURE AND ORGANIZATION</td>
</tr>
<tr>
<td>CSCD 461</td>
<td>EMBEDDED SYSTEMS</td>
</tr>
<tr>
<td>CSCD 462</td>
<td>EMBEDDED REAL-TIME CONTROL</td>
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<tr>
<td>CSCD 467</td>
<td>PARALLEL AND CLOUD COMPUTING</td>
</tr>
<tr>
<td>CSCD 470</td>
<td>3D COMPUTER GRAPHICS PRINCIPLES</td>
</tr>
<tr>
<td>CSCD 471</td>
<td>ADVANCED 3D COMPUTER GRAPHICS</td>
</tr>
<tr>
<td>CSCD 474</td>
<td>COMPUTER GAMES DEVELOPMENT</td>
</tr>
<tr>
<td>CSCD 480</td>
<td>INTELLIGENT SYSTEMS</td>
</tr>
<tr>
<td>CSCD 487</td>
<td>HUMAN COMPUTER INTERFACE</td>
</tr>
</tbody>
</table>

Note: upper division MATH or CSCD 95-99 courses may be used—prior dept. approval of topic content is required.

Total Credits 98

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Student Learning Outcomes for the BCS may be found at ewu.edu/csslo

Computer Information Systems Minor

Demand for computer skills, including database management and design, make this minor a good choice in support of a variety of majors.
Computer Science Major, Bachelor of Science (BS)

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202, 410.347.7700.

Our traditional computer science degree provides extensive preparation in both the theoretical and practical aspects of computer science. It will prepare you for a variety of careers in computing or for additional study at the graduate level. In this program you will study both general purpose programming and programming for specialized purposes and environments. In addition, you will learn about algorithms, performance analysis, networks, computer architectures, information systems and software engineering. You will also work on a realistic project in a team environment. The program includes a variety of advanced courses that allow you to tailor your degree to your specific interests.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 210</td>
<td>PROGRAMMING PRINCIPLES I</td>
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<tr>
<td>CSCD 211</td>
<td>PROGRAMMING PRINCIPLES II</td>
<td>5</td>
</tr>
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<td>CSCD 300</td>
<td>DATA STRUCTURES</td>
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</tr>
<tr>
<td>CSCD 327</td>
<td>RELATIONAL DATABASE SYSTEMS</td>
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</tr>
<tr>
<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
</tbody>
</table>

Elective—choose one of the following

- CSCD 427 ADVANCED DATABASE MANAGEMENT SYSTEMS
- CSCD 429 DATA MINING

Total Credits 28

Required Computer Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<td>CSCD 211</td>
<td>PROGRAMMING PRINCIPLES II</td>
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<tr>
<td>CSCD 240</td>
<td>C AND UNIX PROGRAMMING</td>
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<td>CSCD 260</td>
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<td>DATA STRUCTURES</td>
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<td>CSCD 320</td>
<td>ALGORITHMS</td>
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<td>CSCD 327</td>
<td>RELATIONAL DATABASE SYSTEMS</td>
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<td>CSCD 330</td>
<td>COMPUTER NETWORKS</td>
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</tr>
<tr>
<td>CSCD 340</td>
<td>OPERATING SYSTEMS</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 349</td>
<td>DESIGN PATTERNS</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 350</td>
<td>SOFTWARE ENGINEERING</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 488</td>
<td>SENIOR PROJECT</td>
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<tr>
<td>CSCD 490</td>
<td>SENIOR CAPSTONE</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one of the following

- CSCD 370 GUI PROGRAMMING
- CSCD 371 .NET PROGRAMMING
- CSCD 372 ANDROID MOBILE DEVELOPMENT
- CSCD 373 iOS MOBILE DEVELOPMENT

Choose one of the following

- CSCD 378 WEB APPLICATION DEVELOPMENT
- or CSCD 379 .NET WEB APPLICATION DEVELOPMENT

Required Advanced Coursework—choose two of the following

- CSCD 409 SCIENTIFIC PROGRAMMING

Note: advancement programming exam clearance is required for CSCD 427 and CSCD 429.

Required Supporting Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EENG 160</td>
<td>DIGITAL CIRCUITS</td>
<td>4</td>
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<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
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</tr>
<tr>
<td>MATH 162</td>
<td>CALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>LINEAR ALGEBRA</td>
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</tr>
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<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 212</td>
<td>INTRODUCTORY ETHICS</td>
<td>5</td>
</tr>
</tbody>
</table>

Required Laboratory Science Courses, choose one sequences from the following 10-13

Biology

- BIOL 171 BIOLOGY I
- BIOL 172 BIOLOGY II
- BIOL 270 BIOLOGICAL INVESTIGATION

Chemistry

- CHEM 151 GENERAL CHEMISTRY
- CHEM 152 GENERAL CHEMISTRY

Geology

- GEOL 120 PHYSICAL GEOLOGY - THE SOLID EARTH
- GEOL 121 PHYSICAL GEOLOGY - SURFICIAL PROCESSES

Physics

- PHYS 151 GENERAL PHYSICS I
- PHYS 152 GENERAL PHYSICS II

And two of the following:

- PHYS 161 MECHANICS LABORATORY
- PHYS 162 HEAT AND OPTICS LABORATORY
- PHYS 163 INSTRUMENTATION LAB I
- PHYS 164 INSTRUMENTATION LAB II

Natural Science Breadth—satisfies a natural science GECR in a discipline other than that chosen for the sequence above.

Required Electives—choose four courses, at least two courses from Group A and one course from Group B.

Note: many of these elective courses have prerequisites.

Group A

Note: other course with prior approval of the department required.
For information on General Education, see Undergraduate Degree (p. 39).
Game Development Minor

This minor provides a strong computer programming foundation followed by courses that emphasize game programming skills.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 210</td>
<td>PROGRAMMING PRINCIPLES I</td>
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</tr>
<tr>
<td>CSCD 211</td>
<td>PROGRAMMING PRINCIPLES II</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 216</td>
<td>3D MODELING and ANIMATION I</td>
<td>4</td>
</tr>
<tr>
<td>CSCD 300</td>
<td>DATA STRUCTURES</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 474</td>
<td>COMPUTER GAMES DEVELOPMENT</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301</td>
<td>DISCRETE MATHEMATICS</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits: 28

Interdisciplinary, Master of Science (MS)

In addition to the Master of Science in Computer Science the department participates in customized interdisciplinary master's degree programs in cooperation with other departments. Call the department office, 359.6524, for further information.

Web Application Development Minor

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCD 210</td>
<td>PROGRAMMING PRINCIPLES I</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 211</td>
<td>PROGRAMMING PRINCIPLES II</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 327</td>
<td>RELATIONAL DATABASE SYSTEMS</td>
<td>4</td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td>4</td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>choose one of the following</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 26
Design
program page (https://www.ewu.edu/cstem/programs/design)

Mindy Breen
319 G CEB
509.359.7002
mbree@ewu.edu (mbreen@ewu.edu)

Travis Masingale
345 CEB
509.359.2437
tmasingale@ewu.edu

Faculty
Melinda E. Breen, Thomas K. Couraud, Ginelle Hustrulid, Poukong C. Manikoth, Travis L. Masingale

Undergraduate Degrees
Bachelor of Arts (BA)
- Visual Communication Design (p. 254)

Bachelor of Fine Arts (BFA)
- Visual Communication Design (p. 254)

Undergraduate Certificate
- User Experience Design (p. 253)

Undergraduate Minors
- Visual Communication Design (p. 255)

Undergraduate Programs
Students studying in the Department of Engineering & Design may select from a broad number of disciplines that include Electrical Engineering, Mechanical Engineering Technology, Mechanical Engineering, Visual Communication Design, Construction, Design and Manufacturing. The primary goal of the Department of Engineering & Design is to provide students with the technical background required for careers in business and industry. Coursework within each program offers experiences in many areas of engineering and design that enhance the preparation of our graduates.

Engineering & Design Departmental Scholarship Information
The department awards two scholarships annually: the M. W. Consulting Engineering Scholarship and Aaron G. Mertens memorial scholarship. These scholarships are awarded to our majors based on academic qualifications and need.

General Admissions Information for Engineering & Design
Students entering the Bachelor of Science degree program as juniors should have completed one year of physics as well as mathematics through precalculus. Failure to complete the mathematics and physics requirements before the junior year likely will delay graduation.

Grade Requirements
In order to graduate, students majoring in the department must earn a GPA ≥2.5 in departmental coursework. Students getting a minor in the department must also earn a GPA ≥2.5 in departmental coursework.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

User Experience Design Certificate
A certificate in User Experience(UX) design will provide students and working professionals a multidisciplinary approach to UX in the context of web-enabled design. Students will learn techniques for composing well crafted and intentional interactions between users and products or technology. The UX certificate provides applied understanding of the concepts, practical knowledge and skills necessary for understanding User Centered Design(UCD) and developing experiences and artifacts for people. Current web technologies (rapid prototyping, modern user interface patterns, HTML(5), CSS, JavaScript, etc.) will be introduced, while preparing for future web enabled devices, or the progressive enhancement approach. Students will design real world projects with affordances for research, experimentation & play.

In order to qualify for admission to the UX Certificate Program, fulltime EWU students must hold a GPA ≥3.0 and be entering or past their junior year, or obtain special permission from the certificate program advisor. Post-degree continuing education students who did not graduate from their previous school with at least a GPA >3.0 will be admitted on a probationary basis and must pass a Readiness Assessment before being admitted to the program.

Note:
- the UX Certificate follows and annual cohort model;
- a grade ≥3.0 must be earned in each course for it to count toward the Certificate;
- to receive the certificate, students must successfully complete each of the required courses;
- junior or senior standing required.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN 338</td>
<td>PRINCIPLES OF INTERACTION DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td>4</td>
</tr>
<tr>
<td>DESN 348</td>
<td>RHETORIC OF USER-CENTERED DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 378</td>
<td>WEB DESIGN 2</td>
<td>4</td>
</tr>
<tr>
<td>DESN 458</td>
<td>USER INTERFACE DESIGN AND PRACTICE</td>
<td>4</td>
</tr>
<tr>
<td>DESN 468</td>
<td>WEB DESIGN 3</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 24

Student Learning Outcomes—students will
- basic design principles and processes—construct narratives and scenarios for the sequencing of the design process and for knowing how to learn describing user experience;
- understanding people and place—collaborate with others to design experiences and/or artifacts for people and the (built and natural) environment;
- effective use of technology—assess skills to learn technology; recognizing that technological change is constant;
- research, reflection, discussion—select research skills such as using databases, asking questions, observing users and developing
Visual Communication Design, Bachelor of Arts (BA)

A major in Visual Communication Design educates and prepares students to conceive and produce creative solutions to satisfy the visual communication needs of society. Graduates are prepared for careers in graphic design, web design, multimedia design, advertising, printing, publishing or related fields. Theory and practice are covered in a variety of contexts, including process and product, form and content, type and image and inter activity. Current technology and future trends are addressed in the context of industry practices. This major is combined with a related minor in another academic area to specialize in specific career preparation.

Notes:

• two years of a single high school foreign language or one year of a single college level foreign language is required;
• in order to receive the Visual Communication Design degree, students must earn a grade ≥3.0 in DESN 263 and DESN 363 in addition to the department requirement of ≥2.5 GPA in all DESN/TECH coursework;
• MATH 107 is recommended for the above major.

Required Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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</tr>
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<tbody>
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<td>DESN 100</td>
<td>DRAWING FOR COMMUNICATION</td>
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</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td>4</td>
</tr>
<tr>
<td>DESN 243</td>
<td>TYPOGRAPHY</td>
<td>4</td>
</tr>
<tr>
<td>DESN 259</td>
<td>HISTORY OF DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 263</td>
<td>VISUAL COMMUNICATION DESIGN 1</td>
<td>5</td>
</tr>
<tr>
<td>DESN 363</td>
<td>VISUAL COMMUNICATION DESIGN 2</td>
<td>5</td>
</tr>
<tr>
<td>DESN 364</td>
<td>PRODUCTION DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td>4</td>
</tr>
<tr>
<td>DESN 378</td>
<td>WEB DESIGN 2</td>
<td>4</td>
</tr>
<tr>
<td>DESN 463</td>
<td>VISUAL COMMUNICATION DESIGN 3</td>
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<tr>
<td>DESN 490</td>
<td>SENIOR CAPSTONE</td>
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<tr>
<td>DESN 493</td>
<td>PORTFOLIO</td>
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Supporting Courses

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<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>CMST 201</td>
<td>PUBLIC SPEAKING</td>
<td>4-5</td>
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<tr>
<td>or CMST 200</td>
<td>INTRODUCTION TO SPEECH COMMUNICATION</td>
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<tr>
<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
<td>5</td>
</tr>
<tr>
<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION</td>
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Electives

<table>
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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>12</td>
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</tbody>
</table>

Total Credits 80-81

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• understand basic business practices, including working on teams;
• identify, analyze and solve communication problems;
• create and develop visual form in response to communication problems;
• show respect for diversity and knowledge of contemporary professional, societal and global issues;
• recognize the need for, and the ability to engage in, lifelong learning;
• describe and respond to the audiences and contexts which communication solutions must address.

Visual Communication Design, Bachelor of Fine Arts (BFA)

The Department of Engineering & Design and the Department of Art offer an intercollegiate Visual Communication Design program founded on four major concerns: developing the highest levels of individual creative performance and professional education; providing courses for all students which develop ability in both technical visual communications as well as important core skills in the area of fine art; giving students a greater cultural and historical understanding and aesthetic appreciation of the function of design in the arts and in the world around them; and functioning as dual centers of emphasis and resource for the visual arts, visual communication and technology in the cultural activities of both the university community and the community at large.

Both departments are committed to working together to give students access to current technologies in the area of visual communication design, as well as experience in developing the necessary visual skills provided by studio art areas such as drawing, painting and sculpture.

The program ends with a three quarter senior year intensive studio experience for the preparation of portfolios for job placement or graduate school application. This includes midterm faculty review of student work, quarterly outside professional review and a final exhibition as the completion of the student portfolio of work.

Prior to declaring the BFA major, students must apply to the program by submitting a portfolio and academic transcripts. Application is recommended at the end of the sophomore year to help ensure that appropriate junior year courses are selected. Students need not be in the BFA to take DESN or ART classes, with the exception of the senior year three quarter class DESN 471/ART 471. This course requires previous acceptance into the BFA degree program.

Notes:

1. There is no foreign language requirement for BFA students.
2. Including university requirements, the above program requires a minimum of 180 credits or an average of 15 credits per quarter for a 12 quarter, four-year program. The 180 credits are based upon the following assumptions: Students will have satisfied university competencies (ENGL 101 and CPLA 100). If this is not true, then the student will have to complete up to six more credits of classes (See university competencies.)
3. ART 213 fulfills EWU’s Fine Arts core requirement.
4. TECH 393 fulfills EWU’s International Studies requirement.
5. DESN 490 fulfills EWU’s senior capstone requirement.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 107</td>
<td>BASIC DESIGN</td>
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<tr>
<td>ART 207</td>
<td>COLOR DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>ART 213</td>
<td>ART IN THE HUMANITIES</td>
<td>5</td>
</tr>
<tr>
<td>ART 300</td>
<td>DRAWING</td>
<td>5</td>
</tr>
<tr>
<td>ART 303</td>
<td>DIGITAL ART I</td>
<td>5</td>
</tr>
<tr>
<td>ART 307</td>
<td>3D DESIGN</td>
<td>5</td>
</tr>
<tr>
<td>ART 360</td>
<td>PRINTMAKING</td>
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<tr>
<td>ART 401</td>
<td>LIFE DRAWING</td>
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<tr>
<td>ART 431</td>
<td>HISTORY OF CONTEMPORARY ART</td>
<td>5</td>
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<td>DESN 100</td>
<td>DRAWING FOR COMMUNICATION</td>
<td>5</td>
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<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td>4</td>
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<tr>
<td>DESN 243</td>
<td>TYPOGRAPHY</td>
<td>4</td>
</tr>
<tr>
<td>DESN 259</td>
<td>HISTORY OF DESIGN</td>
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<tr>
<td>DESN 263</td>
<td>VISUAL COMMUNICATION DESIGN 1</td>
<td>5</td>
</tr>
<tr>
<td>DESN 363</td>
<td>VISUAL COMMUNICATION DESIGN 2</td>
<td>5</td>
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<tr>
<td>DESN 366</td>
<td>PRODUCTION DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td>4</td>
</tr>
<tr>
<td>DESN 378</td>
<td>WEB DESIGN 2</td>
<td>4</td>
</tr>
<tr>
<td>DESN 463</td>
<td>VISUAL COMMUNICATION DESIGN 3</td>
<td>5</td>
</tr>
<tr>
<td>DESN 471</td>
<td>SENIOR EXHIBITION (must be taken three times)</td>
<td>3</td>
</tr>
<tr>
<td>or ART 471</td>
<td>SENIOR EXHIBITION</td>
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<tr>
<td>DESN 490</td>
<td>SENIOR CAPSTONE</td>
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<td>DESN 495</td>
<td>INTERNSHIP</td>
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<td>TECH 393</td>
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<td>Total Credits</td>
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</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- have the ability to solve visual communication problems, including the skills of identification, research and information gathering, analysis and generation of alternative solutions;
- have the ability to draw on thoughts and ideas in relation to an art historical timeline, apply contemporary concepts in design to their own work and articulate and discuss art within our own culture and the art of other cultures;
- have basic skills to create a response to visual communication problems, including an understanding of the principles of visual organization/composition, information hierarchy, symbolic representation, typography, aesthetics and the construction of meaningful images;
- have an understanding of multimedia tools and technology, including their roles in the creation, reproduction and distribution of visual messages;
- be able to describe and respond to audiences and contexts that communication solutions must address, including recognition of the physical, cognitive and social human factors that shape design decisions;
- have an understanding of basic business practices, including the ability to organize design projects and to work productively as members of a team;
- create a cohesive body of work on a level appropriate to entry into both graduate schools and design professions and have the ability to defend their portfolio work both orally and in writing.

**Visual Communication Design Minor**

A minor in visual communication design will provide students with a foundation in the creative, conceptual and technical skills necessary to understand and participate in the visual communication needs of future professional practice. This minor supports endeavors in visual communication design for print and web, including effective use of design thinking, process and techniques.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN 100</td>
<td>DRAWING FOR COMMUNICATION</td>
<td>5</td>
</tr>
<tr>
<td>DESN 216</td>
<td>DIGITAL FOUNDATIONS</td>
<td>4</td>
</tr>
<tr>
<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION (satisfies general university requirement for International Studies)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives—choose from the following list**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN 243</td>
<td>TYPOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>DESN 259</td>
<td>HISTORY OF DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 263</td>
<td>VISUAL COMMUNICATION DESIGN 1</td>
<td></td>
</tr>
<tr>
<td>DESN 275</td>
<td>DIGITAL SOUND</td>
<td></td>
</tr>
<tr>
<td>DESN 350</td>
<td>DIGITAL IMAGING AND PHOTOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 363</td>
<td>VISUAL COMMUNICATION DESIGN 2</td>
<td></td>
</tr>
<tr>
<td>DESN 366</td>
<td>PRODUCTION DESIGN</td>
<td></td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td></td>
</tr>
<tr>
<td>DESN 375</td>
<td>DIGITAL VIDEO</td>
<td></td>
</tr>
<tr>
<td>DESN 378</td>
<td>WEB DESIGN 2</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>25-27</td>
</tr>
</tbody>
</table>
Earth and Space Science

Sharen Keattch, Program Advisor
department page (https://www.ewu.edu/cstem/programs/geology)
130 Science Bldg.
509.359.7358
department page (https://www.ewu.edu/cstem/programs/geology)
130 Science Bldg.
509.359.7358
email (geol@ewu.edu)

Faculty
Varies.

Undergraduate Degrees

Bachelor of Arts in Education (BAE)
  • Earth and Space Science/Secondary (p. 256)

Undergraduate Minors
  • Earth and Space Science/Secondary (p. 257)

Teacher Certification/Add-on Endorsements
  • General Science/Add-on Endorsement (p. 257)

Undergraduate Programs

The BAE in Earth and Space Science is for prospective secondary school science teachers. The Earth and Space Science major and minor are interdisciplinary, with required courses from geography, geology, physics, chemistry and biology.

General Admissions Requirements for Earth and Space Science

High school students who plan to enter this program are encouraged to take three or four years of both science and mathematics in high school. University students should generally complete their gecr requirements, particularly in the Natural Sciences, prior to entering the program. Students are encouraged to contact the Earth and Space Science advisor to aid them in selecting these gecr courses.

General Degree Completion Requirements for Earth and Space Science

Grade Requirement for BAE
  • ≥2.5 cumulative average
  • ≥2.0 in each course

Generally Earth and Space Science is taught in the junior high school or middle school. Also, it is occasionally taught as a high school elective or in the upper elementary grades.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Earth and Space Science/Secondary Major, Bachelor of Arts in Education (BAE)

Notes:
  • grade requirement for BAE ≥2.5 cumulative average and ≥2.0 in each course;
  • the above is an interdisciplinary major—see an advisor to determine if courses required by this major may be taken in partial fulfillment of the GECRs;
  • this major takes more than 12 quarters at 15–16 credits a quarter.

Secondary Education Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 200 &amp; EDUC 303 &amp; EDUC 309</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these courses must be taken concurrently)</td>
<td>7</td>
</tr>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 413</td>
<td>CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES</td>
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</tr>
<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 426</td>
<td>SECONDARY STUDENT TEACHING 7-12</td>
<td>15</td>
</tr>
<tr>
<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
<td>4</td>
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</table>

Earth and Space Science Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>INTRODUCTION TO OCEANOGRAPHY</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 410</td>
<td>GEOMORPHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 122</td>
<td>HISTORICAL GEOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 311</td>
<td>EARTH MATERIALS</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 320</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 360</td>
<td>GEOLOGIC HAZARDS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>DESCRIPTIVE ASTRONOMY</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
<td>2</td>
</tr>
<tr>
<td>SCED 391</td>
<td>MIDDLE LEVEL AND EARTH AND SPACE SCIENCE METHODS</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives—students must take field-oriented coursework from the list below or from special field courses in GEOG or GEOL approved by the Earth and Space Science advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>INTRODUCTION TO FIELD RESEARCH</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>SURFACE HYDROLOGY</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 325</td>
<td>WETLAND SCIENCE I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 455</td>
<td>GEOLOGY OF THE COLORADO PLATEAU</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 496</td>
<td>EXPERIMENTAL COURSE</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 110-111

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

...
• explain the disciplinary core ideas of earth and space science and can guide the learning of others in key principles of earth and space science outlined in the Next Generation Science Standards;
• apply science and engineering practices in NGSS;
• incorporate instructional materials and teaching strategies to a community of diverse students;
• explain how cross-cutting ideas bridge disciplinary boundaries, uniting core ideas throughout the fields of science and engineering;
• appropriately respond to potential safety hazards in different learning environments, e.g., laboratory, classroom, field.

Earth and Space Science/Secondary Minor

This minor satisfies the endorsement for grades 5-12

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 305</td>
<td>INTRODUCTION TO OCEANOGRAPHY</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 122</td>
<td>HISTORICAL GEOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>DESCRIPTIVE ASTRONOMY</td>
<td>5</td>
</tr>
<tr>
<td>SCED 390</td>
<td>SCIENCE TEACHING METHODS</td>
<td>2</td>
</tr>
<tr>
<td>SCED 391</td>
<td>MIDDLE LEVEL AND EARTH AND SPACE SCIENCE METHODS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

Student Learning Outcomes—Students will

• demonstrate an understanding of the disciplinary core ideas of Earth and Space Science and can guide the learning of others in key principles of earth and space science outlined in the Next Generation Science Standards (NGSS);
• apply science and engineering practices in NGSS;
• incorporate instructional materials and teaching strategies to a community of diverse students;
• explain how cross-cutting ideas bridge disciplinary boundaries, uniting core ideas throughout the fields of science and engineering;
• appropriately respond to potential safety hazards in different learning environments, e.g., laboratory, classroom, field.

Teacher Certification/Add-on Endorsements

General Science/Add-on Endorsement

Individuals with endorsement in one of the sciences can receive a General Science Endorsement if they are successful in passing the General Science West E exam. However, we recommend taking the following courses in order to increase the likelihood of passing the exam.

To improve the marketability of the science teacher, students may wish to complete this option in addition to their BAE in Biology, Chemistry, Earth and Space Science or Physics.
Engineering & Design

Martin Weiser, Chair
department page (https://www.ewu.edu/cstem/programs/engineering)
319E CEB
509.359.2815

Faculty

Undergraduate Degrees
Bachelor of Science (BS)
• Electrical Engineering (p. 259)
• Mechanical Engineering (p. 261)
• Mechanical Engineering Technology (p. 260)
• Technology - Applied Technology Option (p. 262)
• Technology - Construction Management Option (p. 263)
• Technology - Design Option (p. 263)
• Technology - Manufacturing Option (p. 264)

Undergraduate Minors
• Applied Technology (p. 258)
• Construction Management (p. 258)
• Manufacturing (p. 260)
• Mechanical Engineering (p. 262)

Undergraduate Programs
Students studying in the Department of Engineering & Design (DESN/EENG/MENG/METC/TECH) may select from a broad number of disciplines that include Electrical Engineering, Mechanical Engineering, Mechanical Engineering Technology, Visual Communication Design, Construction, Design and Manufacturing. The primary goal of the Department of Engineering & Design is to provide students with the technical background required for careers in business and industry. Coursework within each program offers experiences in many areas of engineering and design that enhance the preparation of our graduates.

The Department of Engineering & Design faculty, facilities and equipment reflect a commitment to maintaining program relevance. Computer-assisted drafting and manufacturing, networking, signal processing, microprocessors, power systems, digital communication, electronics, integrated circuits design, graphic design/web design, robotics, thermodynamics, fluid dynamics, heat transfer and materials processing laboratories and a variety of other engineering/engineering technology laboratories are constantly being updated with new equipment. Articulation and research with industry have resulted in programs that address the latest trends in industry. These efforts have consistently offered graduates excellent job placement and employment opportunities.

Engineering & Design Departmental Scholarship Information: The department awards two scholarships annually: the M. W. Consulting Engineering Scholarship and Aaron G. Mertens memorial scholarship. These scholarships are awarded to our majors based on academic qualifications and need.

General Admissions Information for Engineering & Design
Students entering the Bachelor of Science degree in the Engineering programs as juniors should have completed one year of physics as well as most of their mathematics. Failure to complete the mathematics and physics requirements before the junior year likely will delay graduation.

Grade Requirements
In order to graduate, students majoring in the department must earn a GPA ≥2.5 in departmental coursework. Students getting a minor in the department must also earn a GPA ≥2.5 in departmental coursework.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Program
Engineering & Design offers courses that students may use as part of a degree in communications, multimedia programming and other interdisciplinary areas. These programs are listed in their respective graduate catalog sections.

Applied Technology Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 330</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I</td>
<td>4</td>
</tr>
<tr>
<td>TECH 331</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II</td>
<td>4</td>
</tr>
<tr>
<td>TECH 403</td>
<td>COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>TECH 452</td>
<td>ENGINEERING ECONOMICS</td>
<td>4</td>
</tr>
<tr>
<td>TECH 454</td>
<td>ENVIRONMENTAL ENGINEERING</td>
<td></td>
</tr>
<tr>
<td>TECH 456</td>
<td>ENGINEERING ETHICS, CONTRACTS AND PATENTS</td>
<td></td>
</tr>
<tr>
<td>TECH 458</td>
<td>QUALITY ASSURANCE</td>
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</tr>
<tr>
<td>TECH 462</td>
<td>INDUSTRIAL SAFETY ENGINEERING</td>
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</table>

Total Credits 24

Construction Management Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 235</td>
<td>CONSTRUCTION MATERIALS AND TECHNIQUES</td>
<td>5</td>
</tr>
<tr>
<td>TECH 305</td>
<td>CONSTRUCTION ESTIMATING</td>
<td>4</td>
</tr>
<tr>
<td>TECH 320</td>
<td>NON-METALLIC PROCESSES</td>
<td>5</td>
</tr>
<tr>
<td>TECH 335</td>
<td>ARCHITECTURE</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose from the following 8
Electrical Engineering, Bachelor of Science (BS)

This degree combines studies in selected areas of engineering, physics, mathematics, and science to prepare students to solve real-world problems in electrical engineering. The Bachelor of Science in Electrical Engineering Degree is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

The first two years of the curriculum allow students to establish a solid foundation in mathematics and sciences. The third year curriculum introduces students to a broad spectrum of electrical engineering coursework, followed by specialization courses and a capstone design experience in the fourth year. The senior year capstone course allows students to consolidate their education experience with the solution of real-world, practical engineering problems often provided by industry.

The primary objective of the electrical engineering program is to prepare students to enter and progress in electrical engineering positions in business, industry and government. Graduates are generally expected to work in the research and development of ideas, products and processes by applying engineering principles to the solution of practical problems in the electrical engineering field.

Note: incoming freshmen are expected to start both the Calculus and Physics series in their first year in order to finish the degree in four years.

Required Courses Outside Department

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CSCD 255</td>
<td>C PROGRAMMING FOR ENGINEERS</td>
<td>5</td>
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<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 162</td>
<td>CALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 163</td>
<td>CALCULUS III</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>LINEAR ALGEBRA</td>
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<tr>
<td>MATH 241</td>
<td>CALCULUS IV</td>
<td>5</td>
</tr>
<tr>
<td>MATH 347</td>
<td>INTRODUCTORY DIFFERENTIAL EQUATIONS</td>
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<td>PHYS 151</td>
<td>GENERAL PHYSICS I</td>
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<td>PHYS 152</td>
<td>GENERAL PHYSICS II</td>
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<td>PHYS 153</td>
<td>GENERAL PHYSICS III</td>
<td>4</td>
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<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
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<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
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<td>PHYS 163</td>
<td>INSTRUMENTATION LAB I</td>
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<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
<td>5</td>
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<tr>
<td>or MENG 381</td>
<td>LABORATORY ANALYSIS AND REPORTS</td>
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Required Departmental Courses

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>EENG 160</td>
<td>DIGITAL CIRCUITS</td>
<td>4</td>
</tr>
<tr>
<td>EENG 209</td>
<td>CIRCUIT THEORY I</td>
<td>5</td>
</tr>
<tr>
<td>EENG 210</td>
<td>CIRCUIT THEORY II</td>
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</tr>
<tr>
<td>EENG 250</td>
<td>DIGITAL HARDWARE</td>
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</tr>
<tr>
<td>EENG 260</td>
<td>MICROCONTROLLER SYSTEMS</td>
<td>4</td>
</tr>
<tr>
<td>EENG 320</td>
<td>SIGNALS AND SYSTEMS I</td>
<td>5</td>
</tr>
<tr>
<td>EENG 321</td>
<td>SIGNALS AND SYSTEMS II</td>
<td>5</td>
</tr>
<tr>
<td>EENG 330</td>
<td>MICROELECTRONICS I</td>
<td>5</td>
</tr>
<tr>
<td>EENG 331</td>
<td>MICROELECTRONICS II</td>
<td>5</td>
</tr>
<tr>
<td>EENG 350</td>
<td>ENERGY SYSTEMS</td>
<td>5</td>
</tr>
<tr>
<td>EENG 360</td>
<td>HARDWARE DESCRIPTION LANGUAGES</td>
<td>5</td>
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<tr>
<td>EENG 383</td>
<td>APPLIED STOCHASTIC PROCESSES</td>
<td>4</td>
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<tr>
<td>EENG 388</td>
<td>STOCHASTIC PROCESSES LAB</td>
<td>1</td>
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<tr>
<td>EENG 401</td>
<td>ENGINEERING APPLIED ELECTROMAGNETICS</td>
<td>4-5</td>
</tr>
<tr>
<td>or PHYS 401</td>
<td>ELECTROMAGNETISM I</td>
<td></td>
</tr>
<tr>
<td>EENG 490A</td>
<td>SR CAPSTONE: DESIGN LAB I</td>
<td>5</td>
</tr>
<tr>
<td>&amp; EENG 490B</td>
<td>and SR CAPSTONE: DESIGN LAB II</td>
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</tr>
<tr>
<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION</td>
<td>4</td>
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</tbody>
</table>

Electives Electrical Engineering—students must take at least three courses from one area of concentration.

Power Systems

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EENG 450</td>
<td>POWER SYSTEMS ANALYSIS</td>
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</tr>
<tr>
<td>EENG 452</td>
<td>PROTECTIVE RELAYS</td>
<td></td>
</tr>
<tr>
<td>EENG 470</td>
<td>CONTROL SYSTEMS</td>
<td></td>
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</tbody>
</table>

Communications and Signal Processing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENG 420</td>
<td>DIGITAL SIGNAL PROCESSING</td>
<td></td>
</tr>
<tr>
<td>EENG 440</td>
<td>DIGITAL COMMUNICATION SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>EENG 470</td>
<td>CONTROL SYSTEMS</td>
<td></td>
</tr>
</tbody>
</table>

VLSI and Circuit Design

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EENG 430</td>
<td>CMOS DIGITAL INTEGRATED CIRCUITS DESIGN</td>
<td></td>
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<tr>
<td>EENG 435</td>
<td>ANALOG INTEGRATED CIRCUITS DESIGN</td>
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</tr>
<tr>
<td>EENG 460</td>
<td>COMPUTING SYSTEMS: ORGANIZATION AND DESIGN</td>
<td></td>
</tr>
<tr>
<td>or EENG 461</td>
<td>EMBEDDED SYSTEM DESIGNS</td>
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</table>

Other Courses

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>EENG 415</td>
<td>INTRODUCTION TO COMPUTER COMMUNICATION NETWORKS</td>
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<tr>
<td>EENG 425</td>
<td>PRINCIPLES OF DIGITAL IMAGE PROCESSING</td>
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</tr>
<tr>
<td>EENG 442</td>
<td>MOBILE COMMUNICATIONS</td>
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<tr>
<td>EENG 471</td>
<td>DIGITAL CONTROL SYSTEMS</td>
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<tr>
<td>EENG 495</td>
<td>INTERNSHIP</td>
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</table>

Total Credits 152-153

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- apply knowledge of mathematics, science and engineering;
- design and conduct experiments, as well as analyze and interpret data;
- design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability;
- function on multidisciplinary teams;
- identify, formulate, and solve engineering problems;
- understand professional and ethical responsibility;
- communicate effectively;
• have the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
• recognize the need for and demonstrate an ability to engage in lifelong learning;
• have a knowledge of contemporary issues;
• use the techniques, skills and modern engineering tools necessary for engineering practice.

Manufacturing Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MENG 217</td>
<td>3D PARAMETRIC COMPUTER AIDED DESIGN</td>
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<tr>
<td>TECH 301</td>
<td>METALLIC PROCESSES</td>
<td>5</td>
</tr>
<tr>
<td>TECH 320</td>
<td>NON-METALLIC PROCESSES</td>
<td>5</td>
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<tr>
<td>TECH 458</td>
<td>QUALITY ASSURANCE</td>
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<tr>
<td>Choose from the following</td>
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<tr>
<td>MENG 353</td>
<td>INDUSTRIAL MATERIALS</td>
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</tr>
<tr>
<td>MENG 385</td>
<td>ROBOTICS AND AUTOMATION</td>
<td></td>
</tr>
<tr>
<td>TECH 402</td>
<td>MACHINE TOOL I</td>
<td></td>
</tr>
<tr>
<td>TECH 404</td>
<td>COMPUTER NUMERICAL CONTROL</td>
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<tr>
<td>Total Credits</td>
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</table>

Mechanical Engineering Technology, Bachelor of Science (BS)

This degree combines studies of Mathematics, Computer Science, Physics and Mechanical Engineering Technology with an emphasis on applications. The Bachelor of Science in Mechanical Engineering Technology Degree is accredited by the Engineering Technology Accreditation Commission of ABET (http://www.abet.org). Before graduation each student will participate in a design project or an internship in industry to gain industrial experience during his or her academic career before employment. The emphasis of this program is the application of engineering principles to the solution of practical problems. MET graduates are in great demand and are employed in a variety of interesting, high-tech careers throughout the state and region. Employment opportunities are available in mechanical design, industrial engineering technology, industrial management, manufacturing, CAD, applied research and sales and service.

Minimum required to apply for admission to the Mechanical Engineering Program

Students must have completed or, be scheduled to complete, the following courses:

MATH 161, MATH 162; all ≥2.0

• PHYS 131 and PHYS 132 and PHYS 133, or PHYS 151 or PHYS 152 or PHYS 153; and PHYS 161, PHYS 162 and PHYS 163; all ≥2.0

• MENG 240 and MENG 241; all ≥2.0

• ENGL 201; ≥2.0

• CHEM 151

• Students must apply for admission to the Mechanical Engineering program at EWU (http://www.ewu.edu/cstem/programs/engineering/
Eastern Washington University

Mechanical Engineering, Bachelor of Science (BS)

This degree combines studies in selected areas of engineering, physics, mathematics, and science to prepare students to solve real-world problems in mechanical engineering. The Bachelor of Science in Mechanical Engineering Degree is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org). The first two years of the curriculum allow students to establish a solid foundation in mathematics, sciences and introduces foundation subjects in mechanical engineering. The third and fourth year curriculum explores further areas in Mechanical Engineering and a capstone is introduced in the fourth year. The senior year capstone course allows the students to consolidate their education experience. The primary objective of the Mechanical Engineering program is to prepare students to enter and progress in mechanical engineering positions in business, industry and government. Graduates are generally expected to work in the research and development of ideas, products and processes by applying engineering principles to the solution of practical problems in the mechanical engineering field.

Minimum required to apply for admission to the Mechanical Engineering Program

Students must have completed, or be scheduled to complete, the following courses by the end of winter quarter.

MATH 161, MATH 162 and MATH 163; All ≥2.0

Required Supporting Outside Department Courses

<table>
<thead>
<tr>
<th>Course</th>
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<td>GENERAL CHEMISTRY</td>
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<td>MATH 161</td>
<td>CALCULUS I</td>
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<td>MATH 162</td>
<td>CALCULUS II</td>
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<td>MATH 163</td>
<td>CALCULUS III</td>
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<td>MATH 241</td>
<td>CALCULUS IV</td>
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<td>MATH 347</td>
<td>INTRODUCTORY DIFFERENTIAL EQUATIONS</td>
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<td>PHYS 151</td>
<td>GENERAL PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 152</td>
<td>GENERAL PHYSICS II</td>
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<td>PHYS 153</td>
<td>GENERAL PHYSICS III</td>
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<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
<td>1</td>
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<tr>
<td>PHYS 163</td>
<td>INSTRUMENTATION LAB I</td>
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Required Departmental Courses

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<tr>
<td>MENG 201</td>
<td>MATLAB</td>
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<tr>
<td>or CSCD 255</td>
<td>C PROGRAMMING FOR ENGINEERS</td>
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<tr>
<td>MENG 207</td>
<td>ELECTRICITY</td>
<td>4</td>
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<td>MENG 217</td>
<td>3D PARAMETRIC COMPUTER AIDED DESIGN</td>
<td>4</td>
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<td>MENG 240</td>
<td>STATICS</td>
<td>4</td>
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<td>MENG 241</td>
<td>STRENGTH OF MATERIALS</td>
<td>4</td>
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<tr>
<td>MENG 242</td>
<td>DYNAMICS</td>
<td>4</td>
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<tr>
<td>MENG 353</td>
<td>INDUSTRIAL MATERIALS</td>
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<tr>
<td>MENG 380</td>
<td>THERMODYNAMICS</td>
<td>5</td>
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<tr>
<td>MENG 381</td>
<td>LABORATORY ANALYSIS AND REPORTS</td>
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</tr>
<tr>
<td>MENG 382</td>
<td>FLUID MECHANICS</td>
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<td>ROBOTICS AND AUTOMATION</td>
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<td>MENG 386</td>
<td>ENGINEERING NUMERICAL ANALYSIS</td>
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<tr>
<td>MENG 405</td>
<td>DESIGN OF MACHINE ELEMENTS</td>
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<td>MENG 412</td>
<td>FUNDAMENTALS OF ENGINEERING</td>
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<td>MENG 452</td>
<td>ENGINEERING ECONOMICS</td>
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<tr>
<td>MENG 490A</td>
<td>SENIOR CAPSTONE: DESIGN LABORATORY I</td>
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<td>MENG 490B</td>
<td>SENIOR CAPSTONE: DESIGN LABORATORY II</td>
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<td>MENG 493</td>
<td>SENIOR SEMINAR</td>
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<tr>
<td>METC 456</td>
<td>ENGINEERING ETHICS, CONTRACTS AND PATENTS</td>
<td>2</td>
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<td>TECH 301</td>
<td>METALLIC PROCESSES</td>
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<tr>
<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION</td>
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</tbody>
</table>

Required Track—choose one of the following

Materials & Computational Mechanics

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- show respect for diversity and a knowledge of contemporary professional, societal and global issues;
- develop the ability to understand professional, ethical or social responsibilities;
- function effectively on teams;
- communicate effectively;
- develop appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines;
- conduct, analyze and interpret experiments and apply results to improve processes.

For information on General Education, see Undergraduate Degree (p. 39).
Mechanical Engineering Minor

**Required Courses**

- MENG 217 3D PARAMETRIC COMPUTER AIDED DESIGN 4
- MENG 240 STATICS 4
- MENG 241 STRENGTH OF MATERIALS 4
- MENG 242 DYNAMICS 4

**Choose from the following**

- MENG 353 INDUSTRIAL MATERIALS 4
- MENG 380 THERMODYNAMICS 4
- MENG 381 LABORATORY ANALYSIS AND REPORTS 4

**Robotics & Automation**

- MENG 485 ADVANCED ROBOTICS AND AUTOMATION 4
- MENG 486 PROGRAMMABLE LOGIC CONTROLLERS IN AUTOMATION 4
- MENG 487 SENSORS THEORY FOR AUTOMATION 4

**Thermo Sciences**

- MENG 407 HVAC 4
- MENG 444 HEAT TRANSFER 4
- MENG 482 ADVANCED FLUID DYNAMICS 4

**Required Electives—choose two** 10

Note: students may select electives from a different track listed above or from the list below.

- METC 417 ADVANCED PARAMETRIC DESIGN 4
- METC 468 QUALITY ASSURANCE AND INTRO TO LEAN 4
- MENG 495 INTERNSHIP 4
- or MENG 491 SENIOR THESIS 4

Total Credits 149-150

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- apply knowledge of mathematics, science and engineering;
- design and conduct experiments, as well as analyze and interpret data;
- design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability;
- function on multidisciplinary teams;
- identify, formulate, and solve engineering problems;
- understand professional and ethical responsibility;
- communicate effectively;
- have the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- recognize the need for and demonstrate an ability to engage in lifelong learning;
- have a knowledge of contemporary issues;
- use the techniques, skills and modern engineering tools necessary for engineering practice.

**Technology with Applied Technology Option, Bachelor of Science (BS)**

This program is designed for students who have graduated with an associate degree in applied arts and sciences (AAAS), associate degree in applied science (AAS), associate degree in technical arts (ATA) in computer technology, electronics, technology, mechanical engineering technology, civil engineering technology, drafting/design technology and similarly named programs at community colleges. This degree allows these students to continue their education by taking liberal arts courses, additional advanced technology courses and supporting courses to complete a Bachelor of Science Degree.

Note: Entrance into this program requires an AAS, AAAS, ATA or similar degree in an approved area from an accredited two-year college. Applicants must have a GPA ≥2.5 for the Technology coursework in the AAS, AAAS or ATA degree. Graduation requires maintaining an overall GPA ≥2.5 for this option.

Note: This program requires an average of 15–16 credits per quarter to complete in 2 years. The 81 credits are based upon the following assumption: students will have satisfied university competencies. If this assumption is not true, then the student will have to complete up to six more credits of classes. (See university competencies in this catalog.

**Required Supporting Outside Department Courses**

Any General Science course—5 credits in general science in any course equivalent to an EWU approved general science course 5

- CHEM 121 CHEMISTRY AND ITS ROLE IN SOCIETY 5
- or CHEM 151 GENERAL CHEMISTRY 5
- MATH 142 PRECALCULUS II 5
- or MATH 107 MATHEMATICAL REASONING 5
- PHIL 210 CRITICAL THINKING 5
- PHYS 100 PHYSICAL SCIENCE I 5

**Required Departmental Courses**

- TECH 330 TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I 4
- TECH 331 TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II 4
- TECH 393 TECHNOLOGY WORLD CIVILIZATION 4
- TECH 403 COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT 4
- TECH 452 ENGINEERING ECONOMICS 4
- TECH 454 ENVIRONMENTAL ENGINEERING 4
- TECH 456 ENGINEERING ETHICS, CONTRACTS AND PATENTS 4
- TECH 458 QUALITY ASSURANCE 4
- TECH 462 INDUSTRIAL SAFETY ENGINEERING 4
- TECH 490 SENIOR CAPSTONE: PRODUCTION LAB 4
Student Learning Outcomes—students will

• develop an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines;
• develop a recognition of the need for, and the ability to engage in, lifelong learning;
• develop a commitment to quality, timeliness and continuous improvement,
• communicate effectively;
• identify, analyze and solve technical and creative problems;
• develop an ability to understand professional, ethical or social responsibilities.

Technology with Construction Management Option, Bachelor of Science (BS)

The construction option focuses on selected areas of technology, physics, construction materials and techniques, emphasizing courses such as construction estimating, soils and surveying, building codes, and architecture. This concentration prepares graduates to enter and progress in supervisory or management positions in the construction industry. Initial employment may be as an estimator, laboratory technician in materials testing, construction inspector or field engineer.

Note: Including university requirements, the program requires a minimum of 180 credits, an average of 15 credits per quarter for a 12 quarter, four-year program. The 180 credits are based upon the following assumptions:

• Students have had one year of high school drafting. If this assumption is not true, then the student will have to take METC 102;
• Students will have satisfied university competencies. If this assumption is not true, then the student will have to complete up to six more credits of classes. (See university competencies).

Required Supporting Outside Department Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>CHEMISTRY AND ITS ROLE IN SOCIETY</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
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</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
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</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
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Required Departmental Courses

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<th>Title</th>
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<tr>
<td>METC 110</td>
<td>ENGINEERING GRAPHICS</td>
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<td>METC 340</td>
<td>STATICS</td>
<td>5</td>
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<tr>
<td>METC 341</td>
<td>STRENGTH OF MATERIALS</td>
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</tr>
<tr>
<td>TECH 235</td>
<td>CONSTRUCTION MATERIALS AND TECHNIQUES</td>
<td>5</td>
</tr>
<tr>
<td>TECH 305</td>
<td>CONSTRUCTION ESTIMATING</td>
<td>4</td>
</tr>
<tr>
<td>TECH 320</td>
<td>NON-METALLIC PROCESSES</td>
<td>5</td>
</tr>
<tr>
<td>TECH 330</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I</td>
<td>4</td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Technology with Design Option, Bachelor of Science (BS)

The design option prepares the graduate for placement in the world of manufacturing. A student graduating with this option should have mastered the basic skills appropriate for the design, development, manufacturing and sale of consumer products. Students should enter the labor force at the middle-management level. The breadth of preparation in the design option provides a broad foundation from which to build and progress.

Note: Including university requirements, the program requires a minimum of 180 credits, an average of 15 credits per quarter for a 12 quarter, four-year program. The 180 credits are based upon the following assumptions:

• Students have had one year of high school drafting. If this assumption is not true, then the student will have to take METC 102;
Students will have satisfied university competencies. If this assumption is not true, then the student will have to complete up to six more credits of classes. (See university competencies.)

**Required Supporting Outside Department Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 112</td>
<td>CHEMISTRY AND ITS ROLE IN SOCIETY</td>
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<tr>
<td>or CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
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</tr>
<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
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<td>PHYS 132</td>
<td>INTRODUCTORY PHYSICS II</td>
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<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
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<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
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**Required Departmental Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MENG 217</td>
<td>3D PARAMETRIC COMPUTER AIDED DESIGN</td>
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<td>MENG 353</td>
<td>INDUSTRIAL MATERIALS</td>
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<td>ENGINEERING GRAPHICS</td>
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<td>METC 340</td>
<td>STATICS</td>
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<td>METC 341</td>
<td>STRENGTH OF MATERIALS</td>
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<td>TECH 208</td>
<td>SURVEY OF ELECTRICITY</td>
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<td>METALLIC PROCESSES</td>
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<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I</td>
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<td>TECH 331</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II</td>
<td>4</td>
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<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION</td>
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</tr>
<tr>
<td>TECH 402</td>
<td>MACHINE TOOL I</td>
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<tr>
<td>TECH 403</td>
<td>COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT</td>
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<td>TECH 452</td>
<td>ENGINEERING ECONOMICS</td>
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<td>TECH 454</td>
<td>ENVIRONMENTAL ENGINEERING</td>
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<td>TECH 456</td>
<td>ENGINEERING ETHICS, CONTRACTS AND PATENTS</td>
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<td>QUALITY ASSURANCE</td>
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<td>TECH 462</td>
<td>INDUSTRIAL SAFETY ENGINEERING</td>
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<td>TECH 490</td>
<td>SENIOR CAPSTONE: PRODUCTION LAB</td>
<td>4</td>
</tr>
<tr>
<td>TECH 491</td>
<td>SENIOR PROJECT (3–10 credits but 4 credits only for this program)</td>
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</tr>
<tr>
<td>TECH 495</td>
<td>INTERNSHIP (if an internship cannot be found by student, a TECH elective may be substituted—1–15 credits but 4 credits for this program.)</td>
<td>4</td>
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</tbody>
</table>

**Total Credits:** 110

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- develop an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines;
- develop a recognition of the need for, and the ability to engage in, lifelong learning;
- develop a commitment to quality, timeliness and continuous improvement;
- communicate effectively;
- identify, analyze and solve technical and creative problems;
- develop an ability to understand professional, ethical or social responsibilities.

**Technology with Manufacturing Option, Bachelor of Science (BS)**

The manufacturing option focuses on select areas of technology, science and methods of materials processing. This option prepares the student to enter and progress in industry in a variety of areas including, quality assurance, inventory control, production line supervision or process management.

Note: Including university requirements, the above program requires a minimum of 180 credits, an average of 15 credits per quarter for a 12 quarter, four-year program. The 180 credits are based upon the following assumptions:

- Students have had one year of high school drafting (if this assumption is not true, then the student will have to take METC 102 Introduction to Engineering Graphics);
- Students will have satisfied university competencies. If this assumption is not true, then the student will have to complete up to six more credits of classes. (See university competencies.)
- technology majors with applied, construction, design or manufacturing options are not accredited by the Technology Accreditation Commission of ABET.

**Required Supporting Outside Department Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
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<td>CHEMISTRY AND ITS ROLE IN SOCIETY</td>
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<td>GENERAL CHEMISTRY</td>
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<tr>
<td>MATH 142</td>
<td>PRECALCULUS II</td>
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<td>or MATH 107</td>
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<td>PHYS 100</td>
<td>PHYSICAL SCIENCE I</td>
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</table>

**Required Departmental Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MENG 217</td>
<td>3D PARAMETRIC COMPUTER AIDED DESIGN</td>
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<td>MENG 353</td>
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<td>METC 110</td>
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<td>TECH 301</td>
<td>METALLIC PROCESSES</td>
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<td>TECH 320</td>
<td>NON-METALLIC PROCESSES</td>
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<td>TECH 330</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I</td>
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<td>TECH 331</td>
<td>TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II</td>
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<td>TECH 393</td>
<td>TECHNOLOGY WORLD CIVILIZATION</td>
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<td>TECH 402</td>
<td>MACHINE TOOL I</td>
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<tr>
<td>TECH 403</td>
<td>COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT</td>
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<td>TECH 404</td>
<td>COMPUTER NUMERICAL CONTROL</td>
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<tr>
<td>TECH 406</td>
<td>WELDING TECHNOLOGY</td>
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</tr>
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<td>TECH 430</td>
<td>MACHINE TOOL II</td>
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<td>TECH 454</td>
<td>ENVIRONMENTAL ENGINEERING</td>
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<td>TECH 456</td>
<td>ENGINEERING ETHICS, CONTRACTS AND PATENTS</td>
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<td>TECH 458</td>
<td>QUALITY ASSURANCE</td>
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<td>TECH 462</td>
<td>INDUSTRIAL SAFETY ENGINEERING</td>
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<tr>
<td>TECH 490</td>
<td>SENIOR CAPSTONE: PRODUCTION LAB</td>
<td>4</td>
</tr>
</tbody>
</table>
For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- develop an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines;
- develop a recognition of the need for, and the ability to engage in, lifelong learning;
- develop a commitment to quality, timeliness and continuous improvement,
- communicate effectively;
- identify, analyze and solve technical and creative problems;
- develop an ability to understand professional, ethical or social responsibilities.
Environmental Science

Biology—258 Science Building
Ross Black (rblack@ewu.edu)
Rebecca Brown (rbrown@ewu.edu)
Camille McNeely (fmcneely@ewu.edu)
Peggy O’Connell (moconnell@ewu.edu)
Robin O’Quinn (roquinn@ewu.edu)
Krisztian Magori (kmagori@ewu.edu)
Suzanne Schwab (sschwab@ewu.edu)

Chemistry/Biochemistry—226 Science Building
Jeff Corkill (jcorkill@ewu.edu)
Tony Masiello (amasiello@ewu.edu)

Geology—130 Science Building
Carmen Nezat (cnezat@ewu.edu)

Undergraduate Degrees

Bachelor of Science (BS)
- Environmental Science - Environmental Biology Option (p. 266)
- Environmental Science - Environmental Chemistry Option (p. 267)
- Environmental Science - Environmental Geology Option (p. 267)

Undergraduate Minors
- Environmental Science (p. 268)

Environmental Science Major with Environmental Biology Option, Bachelor of Science (BS)

Environmental Science is an interdisciplinary field that combines physical, chemical and biological sciences with social, political and economic understanding needed to study the environment and address environmental problems. The Environmental Science program integrates classroom work in biology, chemistry, geology and social sciences (economics and planning) with extensive field, lab and research experience. All students take a core of Environmental Science courses complemented by a concentration in one of the three core sciences (biology, chemistry, and geology). Motivated students have the opportunity to obtain a double major in both Environmental Science and their concentration area. Graduates leave Eastern with the necessary professional and technical skills for employment in the environmental profession or entry into graduate or professional school.

Major Requirements for Environmental Science
All Environmental Science students must take a junior year (ENVS 300) and a final senior year environmental seminar (ENVS 400). After declaring environmental science as a major each student should meet with an advisor as soon as possible. Students should start the program with the necessary mathematics background to enter into the calculus or statistics sequence (i.e. MATH 141 or equivalent). It is recommended that students take ENVS 100, BIOL 171—BIOL 173, CHEM 151—CHEM 153 and GEOL 120 and GEOL 121 within the first two years. Students must maintain an overall GPA ≥2.50 to remain in the program.

Note: some course options may not result in there being 60 upper division credits required for graduation within the major—advisor consultation is required.

Note: may only count BIOL 380 once.

Environmental Science Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>BIOL 172</td>
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<td>BIOLOGY III</td>
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<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
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<td>BIOL 440</td>
<td>ECOLOGY</td>
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<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
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<td>CHEM 152</td>
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<td>GENERAL CHEMISTRY</td>
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<td>DSCI 245</td>
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<td>or BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
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<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
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<td>or BIOL 380</td>
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<td>or MATH 161</td>
<td>CALCULUS I</td>
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<td>ECON 100</td>
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<td>ENVS 100</td>
<td>INTRODUCTION TO ENVIRONMENTAL SCIENCE</td>
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<td>ENVIRONMENTAL SCIENCE SENIOR SEMINAR</td>
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<td>GIS FOR ENVIRONMENTAL SCIENCES</td>
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<td>GEOL 120</td>
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<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
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<td>GEOL 320</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>4-5</td>
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<tr>
<td>or GEOL 380</td>
<td>WORLD RESOURCES AND POPULATION</td>
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<td>GEOL 470</td>
<td>HYDROGEOLOGY</td>
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<td>PLAN 431</td>
<td>ENVIRONMENTAL IMPACT STATEMENTS</td>
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Environmental Biology—Required General Biological Knowledge—choose one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL 301</td>
<td>MICROBIOLOGY</td>
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<td>BIOL 302</td>
<td>BOTANY</td>
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<td>BIOL 303</td>
<td>INVERTEBRATE ZOOLOGY</td>
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<td>BIOL 304</td>
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Capstone

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL 490</td>
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Electives—Upper division electives with advisor’s consent.

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<td></td>
<td>Total Credits</td>
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For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- develop an integrated knowledge of major concepts in the area of environmental sciences and an understanding of fundamental roles that biology, chemistry, and geology play in environmental science;
• demonstrate knowledge of the interrelationships among the physical and biological components of ecosystems;
• use epistemologically sound quantitative techniques for the analysis of biotic and abiotic samples and systems;
• demonstrate effective oral, graphical, and written communication abilities, and critical thinking skills as related to the environmental sciences;
• develop sufficient preparation in the environmental sciences to successfully compete in a graduate or professional program, or to realize employment in an environmental sciences-related career.

Environmental Science Major with Environmental Chemistry Option, Bachelor of Science (BS)

Environmental Science is an interdisciplinary field that combines physical, chemical and biological sciences with social, political and economic understanding needed to study the environment and address environmental problems. The Environmental Science program integrates classroom work in biology, chemistry, geology and social sciences (economics and planning) with extensive field, lab and research experience. All students take a core of Environmental Science courses complemented by a concentration in one of the three core sciences (biology, chemistry, and geology). Motivated students have the opportunity to obtain a double major in both Environmental Science and their concentration area. Graduates leave Eastern with the necessary professional and technical skills for employment in the environmental profession or entry into graduate or professional school.

Major Requirements for Environmental Science
All Environmental Science students must take a junior year (ENVS 300) and a final senior year environmental seminar (ENVS 400). After declaring environmental science as a major each student should meet with an advisor as soon as possible. Students should start the program with the necessary mathematics background to enter into the calculus or statistics sequence (i.e. MATH 141 or equivalent). It is recommended that students take ENVS 100, BIOL 171–BIOL 173, CHEM 151–CHEM 153 and GEOL 120 and GEOL 121 within the first two years. Students must maintain an overall GPA ≥2.50 to remain in the program.

Note: some course options may not result in there being 60 upper division credits required for graduation within the major–advisor consultation is required.

Note: may only count BIOL 380 once.

Required Environmental Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>BIOL 171</td>
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<td>BIOL 172</td>
<td>BIOLOGY II</td>
<td>5</td>
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<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
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<tr>
<td>BIOL 440</td>
<td>ECOLOGY</td>
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<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
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<td>CHEM 152</td>
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<td>CHEM 153</td>
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<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
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<tr>
<td>or BIOL 380</td>
<td>DATA ANALYSIS FOR BIOLOGISTS</td>
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<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
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DSCI 346 ADVANCED DATA ANALYSIS FOR BUSINESS (may only count BIOL 380 once)
or BIOL 380 DATA ANALYSIS FOR BIOLOGISTS
or MATH 161 CALCULUS I

ECON 100 GENERAL EDUCATION ECONOMICS 5
ENVS 100 INTRODUCTION TO ENVIRONMENTAL SCIENCE 5
ENVS 300 ENVIRONMENTAL SCIENCE JUNIOR SEMINAR 1
ENVS 400 ENVIRONMENTAL SCIENCE SENIOR SEMINAR 1
GEOG 323 GIS FOR ENVIRONMENTAL SCIENCES 3
GEOL 120 PHYSICAL GEOLOGY - THE SOLID EARTH 5
GEOL 121 PHYSICAL GEOLOGY - SURFICIAL PROCESSES 5
GEOL 320 ENVIRONMENTAL GEOLOGY 4
or GEOL 380 WORLD RESOURCES AND POPULATION 4
GEOL 470 HYDROGEOLOGY 4
PLAN 431 ENVIRONMENTAL IMPACT STATEMENTS 3

Environmental Chemistry—Required General Chemistry Courses

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<td>CHEM 304</td>
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<td>CHEM 319</td>
<td>MODERN INORGANIC CHEMISTRY</td>
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<td>CHEM 351</td>
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<td>CHEM 372</td>
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<td>CHEM 491</td>
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Chemistry Elective, choose one 5-6

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<td>&amp; CHEM 373</td>
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Total Credits 111-116

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• develop an integrated knowledge of major concepts in the area of environmental sciences and an understanding of fundamental roles that biology, chemistry, and geology play in environmental science;
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Environmental Science Major with Environmental Geology Option, Bachelor of Science (BS)

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Major Requirements for Environmental Science
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Note: some course options may not result in there being 60 upper division credits required for graduation within the major–advisor consultation is required.

Note: may only count BIOL 380 once.
research experience. All students take a core of Environmental Science courses complemented by a concentration in one of the three core sciences (biology, chemistry, and geology). Motivated students have the opportunity to obtain a double major in both Environmental Science and their concentration area. Graduates leave Eastern with the necessary professional and technical skills for employment in the environmental profession or entry into graduate or professional school.

**Major Requirements for Environmental Science**

All Environmental Science students must take a junior year (ENVS 300) and a final senior year environmental seminar (ENVS 400). After declaring environmental science as a major each student should meet with an advisor as soon as possible. Students should start the program with the necessary mathematics background to enter into the calculus or statistics sequence (i.e. MATH 141 or equivalent). It is recommended that students take ENVS 100, BIOL 171–BIOL 173, CHEM 151–CHEM 153 and GEOL 120 and GEOL 121 within the first two years. Students must maintain an overall GPA ≥2.50 to remain in the program.

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**Environmental Science Required Courses**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 171</td>
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<td>BIOL 172</td>
<td>BIOLOGY II</td>
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<td>BIOL 173</td>
<td>BIOLOGY III</td>
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<tr>
<td>BIOL 270</td>
<td>BIOLOGICAL INVESTIGATION</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>ECOLOGY</td>
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<td>CHEM 151</td>
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<td>CHEM 152</td>
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<td>CHEM 153</td>
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<tr>
<td>DSCI 245</td>
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<td>4-5</td>
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<td>DATA ANALYSIS FOR BIOLOGISTS</td>
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</tr>
<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
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<td>DSCI 346</td>
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<td>or MATH 161</td>
<td>CALCULUS I</td>
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<td>ENVS 400</td>
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<td>GEOL 323</td>
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<td>GEOL 120</td>
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<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
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<td>GEOL 320</td>
<td>ENVIRONMENTAL GEOLOGY</td>
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<tr>
<td>or GEOL 380</td>
<td>WORLD RESOURCES AND POPULATION</td>
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</tr>
<tr>
<td>GEOL 470</td>
<td>HYDROGEOLOGY</td>
<td>4</td>
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<td>PLAN 431</td>
<td>ENVIRONMENTAL IMPACT STATEMENTS</td>
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**Environmental Geology—Required Geology Courses**

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<tr>
<th>Course</th>
<th>Title</th>
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<td>GEOL 122</td>
<td>HISTORICAL GEOLOGY</td>
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<td>GEOL 311</td>
<td>EARTH MATERIALS</td>
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<tr>
<td>GEOL 360</td>
<td>GEOLOGIC HAZARDS</td>
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Geology

Jennifer Thomson (charbolt@ewu.edu), Geology Chair
department page (https://www.ewu.edu/cstem/programs/geology)
130 Science Bldg.
509.359.2286

Faculty


Undergraduate Degrees

Bachelor of Arts (BA)
- Geology (p. 269)

Bachelor of Science (BS)
- Geology (p. 270)

Undergraduate Minors
- Geology (p. 270)

Undergraduate Programs

Geology is the science of planet Earth. Geologists use elements of chemistry, physics, biology and mathematics in interpreting the evolution of the Earth and its life forms. Applied geology addresses exploration of Earth resources, environmental quality and hazards and practical understanding of the planet on which we live.

Geology is a field-oriented science and our curriculum emphasizes field studies. However, geologists increasingly employ advanced chemical and physical analytic techniques and use computers to model natural systems. Eastern has specialized laboratory facilities for various sub-disciplines in geology. Extensive collections of minerals, rocks and fossils are available for study and research.

Nationwide, approximately half of recent geology graduates are employed in environmental fields while a third go on to graduate school. Most of the rest go into the petroleum industry, teaching, government or mining. The Geology Department has close relations with geotechnical/environmental consulting firms, government agencies and mining companies in the Pacific Northwest.

Students should decide on declaring their geology major early to ensure timely graduation with the many credits needed in the Bachelor of Science program. Course substitutions in the Geology program must be approved by the Department. Most graduate schools require a full year of calculus.

An opportunity exists to earn a double major with a BS in both Geology and Environmental Science. (See catalog section on Environmental Science.)

General Admissions Requirements for Geology

High school students planning to major in Geology should take two years of algebra, one year of geometry/trigonometry and one year of chemistry and physics. They are also encouraged to take four years of English. The ability to express ideas and concepts clearly and concisely, both orally and in written form, is fundamental to all sciences.

Entering freshmen and transfer students electing to major in Geology should contact the Department for advising as soon as possible. Failure to do so may result in an additional year to finish the BS program. Especially important for beginning students is early completion of the chemistry sequence.

Enrollment in GEOL 120 and GEOL 121 requires a major declaration in Geology.

Grade Requirement
- ≥2.50 cumulative average
- ≥2.0 in required supporting and geology classes

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Geology Major, Bachelor of Arts (BA)

The Bachelor of Arts serves students interested in geology-oriented fields which do not require the full range of professional training. Employment opportunities include such varied possibilities as park naturalist, urban and regional planner or geological technician.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Note: GEOL grade requirements are ≥2.50 cumulative average and ≥2.0 in required supporting and geology classes.

Note: enrollment in GEOL 120 and GEOL 121 requires a major declaration in Geology.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>PHYSICAL GEOLOGY - SURFICIAL PROCESSES</td>
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</tr>
<tr>
<td>GEOL 122</td>
<td>HISTORICAL GEOLOGY</td>
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<tr>
<td>GEOL 311</td>
<td>EARTH MATERIALS</td>
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</tr>
<tr>
<td>GEOL 312</td>
<td>CRYSTALLOGRAPHY AND OPTICAL MINERALOGY</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 313</td>
<td>IGNEOUS AND METAMORPHIC PETROLOGY</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 490</td>
<td>SENIOR CAPSTONE: GEOLOGY FIELD CAMP</td>
<td>4-10</td>
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<tr>
<td>or GEOL 490A</td>
<td>SENIOR CAPSTONE: WATER AND THE WEST</td>
<td></td>
</tr>
<tr>
<td>or GEOL 490A</td>
<td>WATER RESOURCE ENGINEERING IN ARID LANDS</td>
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</tr>
<tr>
<td>or GEOL 491</td>
<td>SENIOR THESIS</td>
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Required Supporting Courses

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>CHEM 151</td>
<td>GENERAL CHEMISTRY</td>
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</tr>
<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
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Choose one from the following

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<th>Title</th>
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<tr>
<td>BIOL 171</td>
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<tr>
<td>GEG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
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<td>GEG 410</td>
<td>GEOMORPHOLOGY</td>
</tr>
<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
</tr>
<tr>
<td>MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>INTRODUCTORY PHYSICS I</td>
</tr>
<tr>
<td>&amp; PHYS 161</td>
<td>and MECHANICS LABORATORY</td>
</tr>
</tbody>
</table>

Electives 20

A GEOL field course may be selected in consultation with department advisor.
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate effective skills in oral and written communication in order to be successful in the field of geology;
• demonstrate an understanding of basic principles of the history and development of the earth through time;
• demonstrate the proper use of computer, laboratory and field equipment used in geology.

Geology Major, Bachelor of Science (BS)

The Bachelor of Science program prepares students for careers as professional geologists, provides the basis for admission to graduate school and prepares students seeking registration and licensing as professional geologists. Some courses in the BS degree will also count as Natural Science GECRs and satisfy the university proficiency in mathematics requirement.

Required Courses

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
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<td>IGNEOUS AND METAMORPHIC PETROLOGY</td>
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<td>GEOL 408</td>
<td>INVERTEBRATE PALEONTOLOGY</td>
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<tr>
<td>GEOL 411</td>
<td>SEDIMENTOLOGY AND STRATIGRAPHY</td>
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<td>GEOL 430</td>
<td>STRUCTURAL GEOLOGY I</td>
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</tr>
<tr>
<td>GEOL 431</td>
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<tr>
<td>GEOL 490</td>
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Required Supporting Courses

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<tr>
<td>CHEM 152</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 153</td>
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<td>GEOG 323</td>
<td>GIS FOR ENVIRONMENTAL SCIENCES</td>
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<tr>
<td>MATH 161</td>
<td>CALCULUS I</td>
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<tr>
<td>MATH 162</td>
<td>CALCULUS II</td>
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</tr>
<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
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</table>

Choose one of the following sequences

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>BIOL 171</td>
<td>BIOLOGY I</td>
</tr>
<tr>
<td>BIOL 172</td>
<td>BIOLOGY II</td>
</tr>
<tr>
<td>BIOL 173</td>
<td>BIOLOGY III</td>
</tr>
</tbody>
</table>

Electives—select credits from Geology courses, eight of which must be upper-division.

Total Credits: 108

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate effective oral and written communication skills necessary for employment in the various fields of geology;
• demonstrate critical thinking skills to solve geological problems encountered in the various fields of geology;
• use the tools and equipment available to professional geologists to solve geological problems;
• demonstrate a solid understanding of geologic principles and processes that operate in the complex systems of the earth.

Geology Minor

Required Courses

<table>
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<tr>
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</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>GEOL 311</td>
<td>EARTH MATERIALS</td>
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</tr>
</tbody>
</table>

Elective—choose from GEOL course list.

Total Credits: 23-24
Mathematics

Barbara Alvin (balvin@ewu.edu), Chair
department page (http://www.ewu.edu/cstem/programs/mathematics)
216 Kingston Hall
509.359.6225

Faculty
Keith V. Adolphson, Barbara Alvin, Xiuqin Bai, Louis F. Blair, Daniel
L. Canada, Carlos Castillo-Garsow, Jacqueline R. Coomes, Raymond
Dempsey, Anthony Frenk, W. Dale Garraway, Ronald S. Gentle, Melissa
E. Graham, Michael C. Graham, Joseph Keller, Hyung Sook Lee, Frank H.
Lynch, Kelly A. Lynn, Rebecca S. Meyer, Gayle M. Millsaps, Christopher L.
Mullins, Wade F. Neilon, Yves Nievergelt, Andrew M. Oster, Seshu R. Rao,
Kyle W. Riggs, Olga V. Slyusareva, Rebecca Sommers, Diana K. Stuart,
Maria Wehr, Bai Xiuqin, Ryan Yancy.

Maria Wehr

Undergraduate Degrees
Bachelor of Arts in Education (BAE)
• Mathematics/Elementary (p. 275)
• Mathematics/Elementary Major and Middle Level Endorsement
  Option (p. 274)
• Mathematics/Secondary (p. 276)
• Mathematics (p. 276) Middle Level (p. 276)

Bachelor of Science (BS)
• Mathematics (p. 272)

Undergraduate Minors
• Mathematics (p. 274)
• Mathematics/Elementary (p. 275)
• Mathematics/Secondary Middle Level Endorsement (p. 277)

Undergraduate Programs
Mathematics is both an art and a science: it has the unique feature that,
while it is typically studied for its own sake, throughout history its results
have been crucial in the advancement of other sciences. Presently there
is a shortage of American mathematicians. Many professionals at the
forefront of the behavioral, social and pure sciences also must have a
solid background in advanced mathematics.

Among the degrees offered by the department is the Bachelor of Science
degree in Mathematics Students who enroll in this program may choose
electives in other disciplines, in order to equip themselves for work
in industry. They may also choose their electives from mathematics
courses in order to prepare them for graduate work in mathematics or
related disciplines; examples of related fields students have gone on to
study in graduate school include statistics and economics. The program
leading to the BS in mathematics is especially strong and is unique within
the region. The department strives to promote excellence, it fields teams
for the Putnam competition and prepares students for actuarial exams.

It also sponsors a chapter of the mathematical honorary society, Pi Mu
Epsilon. Recent graduates are successfully pursuing doctoral work at top-
level universities.

The other major programs offered by the department lead to the Bachelor
of Arts in Education; the BAE can be earned in Secondary Mathematics
Education or Elementary Mathematics Education. In addition, a student
may earn a Middle Level Endorsement in Mathematics Education.
The preparation of mathematics teachers is a major emphasis of
the department. Six department faculty members have expertise in
mathematics education and experience teaching elementary, middle and/
or high school mathematics. Employment opportunities for teaching
mathematics at elementary, middle and secondary levels are substantial
and expected to remain high for the foreseeable future.

The department’s mathematics education programs prepare future
teachers by providing background in mathematics content, teaching
methods, learning theories, problem solving, the use of technology in
teaching mathematics and current developments in curriculum. The
secondary mathematics education program is one of the strongest in
the state and provides students with a mathematics background that
approaches that of the BS in mathematics. Completion of a major in
secondary mathematics education satisfies the current requirements
for a secondary mathematics teaching endorsement (certificate) for the
state of Washington. The elementary mathematics education program
is unique in the state; it provides a balance of mathematics content and
teaching methods courses to give prospective K–8 teachers a deeper
background in mathematics and the teaching of K–8 mathematics.
Graduates of this program have the background to be mathematics
content specialists at the elementary school level. The middle level
endorsement secondary or elementary program options meet the state
requirements for mathematics certification at the 4th through 9th
grade levels.

The department has been strengthening its faculty and its faculty
members are increasingly active in research. On occasion,
undergraduates have been involved in research. Currently, faculty
members are active in the areas of statistics, higher algebra, real and
harmonic analysis, numerical analysis, complex variables, differential
geometry, convexity, topology, biomathematics, computational
neuroscience, mathematical physiology, reliability engineering, big data
and time series analysis and in various areas of mathematics education
including functions, number sense in primary children, construction of
mathematical understanding, teachers’ mathematical knowledge for
teaching, development of mathematics tasks, professional development
of secondary mathematics teachers, and mathematical habits of mind.

An important function of the department is to provide services to
students from a wide range of disciplines. Mathematics tutoring labs
provide employment for high-achieving students and assistance to
students in all mathematics courses.

In addition, computers equipped with mathematics software and
tutorials are used in conjunction with several courses offered by the
department and allow students the practice needed to be successful in
their mathematics courses.

General Admissions Requirements for Mathematics
High school students who want to pursue a major in this department
(except the BAE elementary mathematics) should complete four years of
high school mathematics, which includes two years of algebra, one year
of geometry and one year of pre-calculus mathematics. All prospective
department majors should contact the Department of Mathematics office
as soon as possible after being admitted to EWU to obtain an advisor and to plan a program of study.

Transfer students should contact their counseling office or the EWU Department of Mathematics to identify appropriate lower-division and major/minor preparatory courses.

Placement Assessment Policy
All students admitted to Eastern Washington University without a direct transfer degree must take the mathematics placement assessment (ALEKS) prior to registering for classes at Eastern. The only exceptions are the following: a. students who have received a grade ≥2.0 from a post-secondary institution in a course equivalent to the level of Intermediate Algebra or above; or b. students who have received a score ≥3.0 on the College Board’s Advanced Placement Calculus AB or BC test, or the Advanced Placement Statistics test.

EWU uses placement software called ALEKS to ensure success in mathematics. Payment and sign up are done online through the math placement site (http://ewu.edu/mathplacement).

A photo ID is required at testing time. No calculators are allowed. The math placement assessment may be retaken once per cohort. Please refer to FAQ on the EWU math placement assessment site for complete information. For questions or more information contact the Department of Mathematics (http://www.ewu.edu/cstem/programs/mathematics) (509.359.6225).

Prerequisite Policy
Students must have earned a grade ≥2.0 or better in any course that is to be used to satisfy a prerequisite requirement for a subsequent mathematics course offered by the Eastern Washington University Department of Mathematics.

Academic Progress Policy for Math Majors and Minors
The intent of the Academic Progress Policy is to support Department of Mathematics declared majors and minors who experience difficulty in mathematics courses required in their programs. Department experience has shown that with few exceptions, requiring a student who has failed to earn a grade ≥2.0 in a required mathematics course to meet with an advisor will be beneficial to the student in terms of maximizing the student’s academic performance and minimizing the expected time to graduation.

A mathematics student is any Eastern Washington University student who intends to complete a major or minor in mathematics; mathematics with an option in computer science, economics, or statistics; mathematics/secondary; or mathematics/elementary.

Mathematics students who fail to make at least a grade ≥2.0 in any mathematics course taken at EWU must review the circumstances with an academic advisor during the term following the failure. A letter from the student explaining the circumstances must be placed in the student’s file. Mathematics students failing to follow this procedure will not be allowed to enroll in subsequent mathematics courses.

Mathematics students who fail to make at least a grade ≥2.0 in mathematics courses taken at EWU on any two quarters during their undergraduate program must meet during the term following the second occurrence with a committee consisting of the student’s appointed advisor and two other members of the mathematics faculty: one designated by the department chair and one chosen by the student. The committee will review the circumstances including the letter submitted after the first occurrence and recommend one of the following actions:

- the student be allowed to continue in the program without specific remediation;
- the student be required to remediate specific deficiencies in a way prescribed by the committee.

Mathematics students who fail to make at least a grade ≥2.0 in mathematics courses in three quarters during their undergraduate program must again meet with a committee of at least three faculty members who will decide if the student will be allowed to continue in the program. Students who are dropped from mathematics programs may be reinstated only by demonstrating the capability of academic excellence and a commitment to complete an undergraduate program in a reasonable time frame. This demonstration must be made before a committee of at least three members of the mathematics faculty.

Mathematics students who are dropped from mathematics programs will not be allowed to take subsequent mathematics courses except for those courses required by another department in the student’s major program. The Department of Mathematics will not submit a letter of recommendation for Professional Degree Candidacy for any student who has been dropped from departmental programs.

Graduation Requirement
Students must receive a grade ≥2.0 in each mathematics course used to satisfy the requirements of an undergraduate major or minor in mathematics.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Certificates
- Middle-Level Mathematics Endorsement (p. 273)

Mathematics Major, Bachelor of Science (BS)

The program leading to a BS in Mathematics is rigorous, but flexible. All students enroll in the core of 55 credits of mathematics, and also choose at least three electives in mathematics. Then, there is a choice of electives outside of mathematics that gives students a background in fields where mathematics is heavily used in industry and government. Therefore, this degree prepares students for a career in industry or government or for graduate study in mathematics or a closely related field.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 161</td>
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<td>MATH 162</td>
<td>CALCULUS II</td>
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<tr>
<td>MATH 163</td>
<td>CALCULUS III</td>
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<tr>
<td>MATH 225</td>
<td>FOUNDATIONS OF MATHEMATICS</td>
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<tr>
<td>MATH 231</td>
<td>LINEAR ALGEBRA</td>
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<td>MATH 241</td>
<td>CALCULUS IV</td>
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<td>MATH 347</td>
<td>INTRODUCTORY DIFFERENTIAL EQUATIONS</td>
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<tr>
<td>MATH 385</td>
<td>PROBABILITY AND STATISTICAL INFERENCE I</td>
<td>5</td>
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<tr>
<td>MATH 432</td>
<td>RINGS AND POLYNOMIALS</td>
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</tr>
<tr>
<td>MATH 460</td>
<td>CONTINUOUS FUNCTIONS</td>
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</tr>
<tr>
<td>MATH 491</td>
<td>SENIOR THESIS</td>
<td>5</td>
</tr>
</tbody>
</table>
Required Electives—choose from the following. 35

A maximum of 20 credits of electives may be counted from outside the MATH Department. Some of these courses may require completion of additional prerequisites.

- CHEM 421: PHYSICAL CHEMISTRY
- CHEM 422: PHYSICAL CHEMISTRY
- CHEM 423: PHYSICAL CHEMISTRY
- CSD 210: PROGRAMMING PRINCIPLES I
- CSD 211: PROGRAMMING PRINCIPLES II
- CSD 300: DATA STRUCTURES
- CSD 305: C++ PROGRAMMING
- CSD 320: ALGORITHMS
- CSD 340: OPERATING SYSTEMS
- CSD 420: AUTOMATA
- CSD 480: INTELLIGENT SYSTEMS
- CSD 501: ADVANCED ALGORITHMS
- ECON 300: INTERMEDIATE MICROECONOMIC THEORY
- ECON 301: INTERMEDIATE MACROECONOMIC THEORY
- ECON 337: ECONOMETRICS
- ECON 430: MATHEMATICAL ECONOMICS
- EENG 320: SIGNALS AND SYSTEMS I
- EENG 321: SIGNALS AND SYSTEMS II
- EENG 420: DIGITAL SIGNAL PROCESSING
- EENG 440: DIGITAL COMMUNICATION SYSTEMS
- EENG 470: CONTROL SYSTEMS
- EENG 471: DIGITAL CONTROL SYSTEMS
- MATH 331: DISCRETE MATHEMATICS WITH APPLICATIONS
- MATH 332: NUMBER THEORY
- MATH 430: ADVANCED LINEAR ALGEBRA
- MATH 431: APPLIED GROUP THEORY
- MATH 433: GALOIS THEORY
- MATH 444: NUMERICAL LINEAR ALGEBRA
- MATH 445: NUMERICAL ANALYSIS
- MATH 447: DIFFERENTIAL EQUATIONS
- MATH 448: PARTIAL DIFFERENTIAL EQUATIONS
- MATH 461: ADVANCED CALCULUS I
- MATH 462: ADVANCED CALCULUS II
- MATH 470: FOUNDATIONS OF GEOMETRY
- MATH 481: COMPLEX ANALYSIS
- MATH 485: PROBABILITY AND STATISTICAL INFERENCE II
- MATH 486: PROBABILITY AND STATISTICAL INFERENCE III
- MENG 492: FINITE ELEMENT ANALYSIS
- PHYS 361: CLASSICAL MECHANICS I
- PHYS 362: CLASSICAL MECHANICS II
- PHYS 363: SPECIAL RELATIVITY
- PHYS 371: INTRODUCTION TO QUANTUM PHYSICS
- PHYS 401: ELECTROMAGNETISM I
- PHYS 402: ELECTROMAGNETISM II
- PHYS 403: ELECTROMAGNETISM III
- MATH 510: NUMBER THEORY
- MATH 511: RATIO AND PROPORTION - TEACHERS
- MATH 512: GEOMETRIC REASONING - TEACHERS
- MATH 513/413: DATA ANALYSIS AND PROBABILITY FOR TEACHERS
- MATH 528: PROBLEM-CENTERED LEARNING
- MTED 525: ASSESSMENT AND MATHEMATICS LEARNING

Total Credits 89

Student Learning Outcomes—students will:

- demonstrate the ability to create and understand mathematical arguments and proofs;
- demonstrate the ability to communicate mathematical concepts both technically and non-technically;
- demonstrate the ability to use numerical and symbolic mathematical technology/software;
- demonstrate knowledge of mathematical applications in industry and the sciences.

Mathematics, Middle-Level Mathematics Endorsement Graduate Certificate

Through completion of the required courses in this certificate program, teachers currently certified in the state of Washington will earn a middle-level (4th through 9th grades) mathematics teaching endorsement. The MA in teaching K–9 mathematics program, with endorsement-specific electives completed, also meets the middle-level endorsement requirements, and students in the degree program need not enroll separately in this certificate program. The certificate program is for students seeking the endorsement only, without the master’s degree, and differs from the undergraduate add-on middle level endorsement program in that the graduate courses will be populated by certified teachers who may have had teaching experience that they will bring to bear. The certificate program courses will also be offered in the late afternoons and summer quarters, whereas the courses in the undergraduate program are primarily offered during the day in the regular academic year.

Completion of this program—by a currently certified teacher with one or more Washington State Teaching Endorsements—will satisfy the Washington state requirements for a middle level mathematics teaching endorsement (grade levels 4–9).

Note: for students who have not previously completed a Pre-Calculus I course or MATH 311, the program will total 40 credits.

General Admission Requirements for the Middle Level Mathematics Add-On Endorsement

1. A Washington State Teaching Certificate.
2. Demonstration of entry-level competency on an inventory of content knowledge for teaching mathematics administered in the Mathematics Department.

Required Courses

- EDUC 517: THE CULTURE OF MIDDLE LEVEL SCHOOL 3
- MATH 510: NUMBER SENSE FOR TEACHERS 3
- MATH 511: RATIO AND PROPORTION - TEACHERS 3
- MATH 512: GEOMETRIC REASONING - TEACHERS 3
- MATH 513/413: DATA ANALYSIS AND PROBABILITY FOR TEACHERS 3
- MATH 514: ALGEBRAIC REASONING - TEACHERS 3
- MATH 515: MEASUREMENT FOR TEACHERS 3
- MATH 516: CALCULUS FOR MIDDLE LEVEL TEACHERS 4
- MATH 528: PROBLEM-CENTERED LEARNING 3
- MTED 525: ASSESSMENT AND MATHEMATICS LEARNING 3
Mathematics Minor

Required Courses

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<td>MATH 225</td>
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Choose one course from the following

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<tr>
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<th>Title</th>
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<td>MATH 385</td>
<td>PROBABILITY AND STATISTICAL INFERENEE I</td>
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</tr>
<tr>
<td>MATH 460</td>
<td>CONTINUOUS FUNCTIONS</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits 30

Mathematics/Elementary Major and Middle Level Endorsement Option, Bachelor of Arts in Education (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Elementary, satisfies the state requirements for a generalist (multiple subject) Elementary Education teaching endorsement.

Notes:

- computer literacy proficiency is required;
- it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
- this proficiency must be completed prior to enrollment in MATH 311.

Required Elementary Education Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 200</td>
<td>ADMISSION TO TEACHER EDUCATION</td>
<td>7</td>
</tr>
<tr>
<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 204</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
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</tr>
<tr>
<td>EDUC 423</td>
<td>ELEMENTARY STUDENT TEACHING K-8</td>
<td>15</td>
</tr>
<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 211</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
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<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II</td>
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<tr>
<td>MATH 311</td>
<td>FUNCTIONS AND RELATIONS FOR K-8 TEACHERS</td>
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<td>MATH 312</td>
<td>GEOMETRY FOR THE K-8 TEACHER</td>
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<td>MATH 413</td>
<td>DATA ANALYSIS AND PROBABILITY FOR MIDDLE LEVEL TEACHERS</td>
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<td>MATH 416</td>
<td>CALCULUS FOR MIDDLE LEVEL TEACHERS</td>
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<td>MATH 420</td>
<td>PROBLEM SOLVING FOR K-8 TEACHERS</td>
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<tr>
<td>MTED 390</td>
<td>METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS</td>
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<tr>
<td>MTED 412</td>
<td>ADVANCED METHODS OF TEACHING K-8 MATHEMATICS</td>
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<tr>
<td>MUSC 450</td>
<td>INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES</td>
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<td>PHED 390</td>
<td>HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS</td>
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<td>PSYC 304</td>
<td>EDUCATIONAL PSYCHOLOGY</td>
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<td>SPED 363</td>
<td>INTRODUCTION TO SPECIAL EDUCATION</td>
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<td>MTED 363</td>
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<td>PROBLEM SOLVING FOR K-8 TEACHERS</td>
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<tr>
<td>MATH 416</td>
<td>CALCULUS FOR MIDDLE LEVEL TEACHERS</td>
<td>4</td>
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</tbody>
</table>

Total Credits 118
For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Note: see Education program for additional SLOs related to certification requirements.

• demonstrate an understanding of and an ability to use the Mathematical Practices (CCSSM) and a productive disposition as a student and teacher of mathematics;
• demonstrate and apply in the classroom a profound understanding of fundamental mathematics within the K–8 curriculum, of how these topics progress within the K–8 range, of how these topics extend and relate to the mathematics in the secondary curriculum, and of the fundamental concepts in the curriculum in the secondary curriculum and beyond;
• demonstrate and apply in the classroom a deep understanding of how students learn mathematics and of the pedagogical knowledge specific to mathematics teaching and learning.

Mathematics/Elementary Major, Bachelor of Arts in Education (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Elementary, satisfies the state requirements for a generalist (multiple subject) Elementary Education teaching endorsement.

Notes:

• computer literacy proficiency is required;
• it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
• this proficiency must be completed prior to enrollment in MATH 311.

Required Elementary Education Core

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<tr>
<td>&amp; EDUC 303</td>
<td>and FOUNDATIONS OF ASSESSMENT</td>
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<tr>
<td>&amp; EDUC 308</td>
<td>and FOUNDATIONS OF ELEMENTARY</td>
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<td></td>
<td>CLASSROOM MANAGEMENT (these courses must</td>
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<td></td>
<td>be taken concurrently)</td>
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<tr>
<td>EDUC 201</td>
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<tr>
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<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT</td>
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<td>EDUC 338</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND</td>
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<td>&amp; EDUC 339</td>
<td>ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<td>and SOCIAL STUDIES AND SCIENCE METHODS,</td>
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<td>MANAGEMENT AND ASSESSMENT IN THE</td>
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<td>ELEMENTARY SCHOOL (must be taken</td>
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<td>concurrently)</td>
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<tr>
<td>EDUC 420</td>
<td>ADMISSION TO PROFESSIONAL CANDIDACY</td>
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<td>MATH 212</td>
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<td>MATHEMATICS</td>
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</tbody>
</table>

Total Credits 108

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Note: see Education program for additional SLOs related to certification requirements.

• demonstrate an understanding of and an ability to use the Mathematical Practices (CCSSM) and a productive disposition as a student and teacher of mathematics;
• demonstrate and apply in the classroom a profound understanding of fundamental mathematics within the K–8 curriculum, of how these topics progress within the K–8 range, of how these topics extend and relate to the mathematics in the secondary curriculum, and of the fundamental concepts in the curriculum in the secondary curriculum and beyond;
• demonstrate and apply in the classroom a deep understanding of how students learn mathematics and of the pedagogical knowledge specific to mathematics teaching and learning.

Mathematics/Elementary, Minor

Completion of this minor is optional. Completion of the General Degree Completion Requirements for Education, Elementary, and a major field of study satisfies the state requirements for a generalist (multiple subjects) Elementary Education teaching endorsement.

Notes:

• computer literacy proficiency is required;
• it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
• this proficiency must be completed prior to enrollment in MATH 311.

Required Courses
Mathematics/Middle Level Endorsement Major, Bachelor of Arts in Education (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Secondary (43 credits) satisfies the state requirements for a state mathematics teaching endorsement (middle level, grade levels 4-9.)

Note: Computer literacy proficiency is required. It can be demonstrated by the CPLA 100 and CPLA 101 tests, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits.

Note: Effective 09/01/14, all candidates for certification must pass the NES subject matter test to receive an endorsement for certification purposes.

Required Courses

MATH 114  ALGEBRA CONCEPTS  5
MATH 211  MATHEMATICS FOR ELEMENTARY TEACHERS I  5
MATH 212  MATHEMATICS FOR ELEMENTARY TEACHERS II  5
MATH 311  FUNCTIONS AND RELATIONS FOR K-8 TEACHERS  5
MATH 420  PROBLEM SOLVING FOR K-8 TEACHERS  4
MTED 390  METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS  5
MTED 412  ADVANCED METHODS OF TEACHING K-8 MATHEMATICS  5

Total Credits  34

* MATH 211, MATH 212 and MTED 390 are required courses in the Professional Education Requirements/Elementary. The actual total of additional credits for this minor when elementary education professional requirements are completed is 19 credits.

Student Learning Outcomes—students will:

• demonstrate and apply in the classroom a profound understanding of fundamental mathematics;
• demonstrate and apply in the classroom a deep understanding of how students learn mathematics and of the pedagogical knowledge specific to mathematics teaching and learning;
• exhibit a productive disposition: value learning, value and respect student thinking, exhibit curiosity about students and mathematics, demonstrate perseverance, model effective learning, understand and value the role of discourse in promoting the learning of math.

Mathematics/Secondary Major,
Bachelor of Arts in Education (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Secondary, satisfies the state requirements for a state mathematics teaching endorsement (secondary, grade levels 5–12).

Notes:

• computer literacy proficiency is required;
• it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
• this proficiency must be completed prior to enrollment in MATH 311;
• the above major takes more than 12 quarters at 15–16 credits a quarter;
• effective 09.01.14 all candidates for certification must pass the NES subject matter test to receive an endorsement for certification purposes.

Required Courses

EDUC 200  ADMISSION TO TEACHER EDUCATION  7
EDUC 303  FOUNDATIONS OF ASSESSMENT
EDUC 309  FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (must be taken concurrently)
EDUC 201  INTRODUCTION TO EDUCATION  3
EDUC 341  SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT  4
EDUC 413  CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES  4
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY  1
EDUC 426  SECONDARY STUDENT TEACHING 7-12  15
PSYC 304  EDUCATIONAL PSYCHOLOGY  5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4

Required Education Secondary Core

30–hour multicultural education field requirement

EDUC 200 & EDUC 303 & EDUC 309  ADMISSION TO TEACHER EDUCATION
& FOUNDATIONS OF ASSESSMENT
& FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)  7
EDUC 201  INTRODUCTION TO EDUCATION  3
EDUC 341  SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT  4
EDUC 413  CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES  4
EDUC 420  ADMISSION TO PROFESSIONAL CANDIDACY  1
EDUC 426  SECONDARY STUDENT TEACHING 7-12  15
PSYC 304  EDUCATIONAL PSYCHOLOGY  5
SPED 363  INTRODUCTION TO SPECIAL EDUCATION  4

EDUC 411  DISCRETE MATHEMATICS FOR K-8 TEACHERS  4
MATH 413  DATA ANALYSIS AND PROBABILITY FOR MIDDLE LEVEL TEACHERS  3
MATH 416  CALCULUS FOR MIDDLE LEVEL TEACHERS  4
MATH 420  PROBLEM SOLVING FOR K-8 TEACHERS  4
MTED 290  EARLY MATH PRACTICUM  3
MTED 390  METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS  5
MTED 392  METHODS OF TEACHING SECONDARY MATH I  3
MTED 412  ADVANCED METHODS OF TEACHING K-8 MATHEMATICS  5
MTED 490B  SENIOR CAPSTONE: SECONDARY PRACTICUM  5

Total Credits  107
### Required Mathematics/Secondary Courses

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<thead>
<tr>
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<tbody>
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<td>MATH 162</td>
<td>CALCULUS II</td>
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<td>MATH 163</td>
<td>CALCULUS III</td>
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<tr>
<td>MATH 225</td>
<td>FOUNDATIONS OF MATHEMATICS</td>
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<tr>
<td>MATH 231</td>
<td>LINEAR ALGEBRA</td>
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<tr>
<td>MATH 241</td>
<td>CALCULUS IV</td>
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<tr>
<td>MATH 370</td>
<td>SURVEY OF GEOMETRIES</td>
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</tr>
<tr>
<td>MATH 385</td>
<td>PROBABILITY AND STATISTICAL INFERENCES I</td>
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<tr>
<td>MATH 387</td>
<td>REGRESSION CONCEPTS</td>
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<tr>
<td>MATH 432</td>
<td>RINGS AND POLYNOMIALS</td>
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<tr>
<td>MATH 460</td>
<td>CONTINUOUS FUNCTIONS</td>
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<td>MATH 492</td>
<td>PROBLEM SOLVING SEMINAR</td>
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</table>

### Required MATH Elective—choose from the following.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 331</td>
<td>DISCRETE MATHEMATICS WITH APPLICATIONS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 332</td>
<td>NUMBER THEORY</td>
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<tr>
<td>MATH 347</td>
<td>INTRODUCTORY DIFFERENTIAL EQUATIONS AND MATHEMATICAL COMPUTING LABORATORY III</td>
<td>5</td>
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<tr>
<td>MATH 431</td>
<td>APPLIED GROUP THEORY</td>
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<tr>
<td>MATH 481</td>
<td>COMPLEX ANALYSIS</td>
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### Required MTED Courses

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<tr>
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<tbody>
<tr>
<td>MTED 392</td>
<td>METHODS OF TEACHING SECONDARY MATH I</td>
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<tr>
<td>MTED 393</td>
<td>METHODS OF TEACHING SECONDARY MATHEMATICS II</td>
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</tr>
<tr>
<td>MTED 490B</td>
<td>SENIOR CAPSTONE: SECONDARY PRACTICUM</td>
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<tr>
<td>MTED 493</td>
<td>METHODS OF TEACHING SECONDARY MATHEMATICS III</td>
<td>3</td>
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</tbody>
</table>

Total Credits: 120

For information on General Education, see Undergraduate Degree (p. 39).

### Student Learning Outcomes—students will

- understanding of foundational content of modern mathematics and its applications;
- a strong ability to reason mathematically and develop proofs with understanding;
- the values, dispositions, and habits of mind of a community of mathematicians;
- understanding of mathematical learning progressions and connections within secondary mathematics;
- ability to critically read, analyze, evaluate, transform, and implement mathematics education literature;
- a sensitivity and ability to respond to the mathematical thinking of secondary students;
- applications of pedagogical content knowledge for secondary mathematics in planning and teaching;
- habits of mind to continue improving teaching practices that support mathematics learning.

### Mathematics/Secondary Middle Level Endorsement/Minor

Completion of this minor, the General Degree Completion Requirements for Education, Secondary, and a major field of study satisfies the state requirements for a middle level mathematics teaching endorsement (grade levels 4–9).

This minor can be completed for an add-on Middle Level Mathematics Endorsement.

The completion of MATH 211 and MATH 212 satisfies the university Mathematical Reasoning competency/proficiency requirement and the MATH 107 requirement in the secondary education program.

### Notes:

- computer literacy proficiency is required;
- it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
- this proficiency must be completed prior to enrollment in MATH 311.
- effective 09-01-05, all candidates for certification must pass the WEST-E Praxis II subject matter test to receive an endorsement for certification purposes.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 417</td>
<td>CULTURE OF MIDDLE SCHOOL</td>
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<tr>
<td>MATH 114</td>
<td>ALGEBRA CONCEPTS</td>
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</tr>
<tr>
<td>MATH 211</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS I **</td>
<td>5</td>
</tr>
<tr>
<td>MATH 212</td>
<td>MATHEMATICS FOR ELEMENTARY TEACHERS II **</td>
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</tr>
<tr>
<td>MATH 311</td>
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<td>GEOMETRY FOR THE K-8 TEACHER</td>
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<td>MATH 411</td>
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<td>MTED 390</td>
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<td>MTED 412</td>
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<td>SENIOR CAPSTONE: SECONDARY PRACTICUM</td>
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</table>

Total Credits: 58
Undergraduate Degrees

Bachelor of Arts in Education (BAE)

- Natural Science Elementary Major and Middle Level Endorsement (p. 278)

Undergraduate Minors

- Natural Science Elementary Minor (p. 279)

Undergraduate Program

The Natural Science major is recommended for those students seeking K–8 certification who are particularly interested in teaching science at the 5–8 level. The coursework in this major provides a foundation of scientific principles required to teach the Washington Essential Academic Learning Requirements for grades 5–9. This major leads to a Middle School Science Endorsement.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Natural Science Education - Middle Level Science, Bachelor of Arts in Education (BAE)

Completion of this major, the General Degree Completion Requirements for Elementary Education, satisfies the state requirements for an Elementary Education teaching endorsement and a Middle Level Science teaching endorsement.

Prerequisites apply:

* BIOL 320 also meets International Studies Requirement;

* NTSC 301 requires prerequisites of GEOG 115 or GEOL 115;

MATH 211 and successful completion or concurrent enrollment in CHEM 161;

* NTSC 302 requires prerequisites of BIOL 115;

CHEM 161;

MATH 211;

PHYS 115 require a prerequisite of MATH 211.

Students can choose either the Elementary or the Secondary Core to complete the Natural Science Education-Middle Level Science major. This major satisfies the endorsement for preschool to grade 12.

Required—choose a core—Elementary=70 credits, Secondary=43 credits

<table>
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<th>43-70 credits</th>
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<tbody>
<tr>
<td><strong>Elementary Education Core</strong></td>
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<tr>
<td>30-hour multicultural education field requirement</td>
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<table>
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<th>Course</th>
<th>Description</th>
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<td>EDUC 200 &amp; EDUC 303 &amp; EDUC 308</td>
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<td>EDUC 338 &amp; EDUC 339</td>
<td>LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
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<th>Credits</th>
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<td>INTRODUCTION TO EDUCATION</td>
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<td>EDUC 341</td>
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<table>
<thead>
<tr>
<th>70 credits</th>
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<tbody>
<tr>
<td><strong>Required Natural Science Education Courses</strong></td>
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<table>
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<tbody>
<tr>
<td><strong>Life Science</strong></td>
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<td>BIOL 115</td>
</tr>
<tr>
<td>BIOL 171</td>
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<table>
<thead>
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<tbody>
<tr>
<td><strong>Earth Science</strong></td>
</tr>
<tr>
<td>GEOG 115</td>
</tr>
</tbody>
</table>
Natural Science Elementary Minor

The Natural Science minor is recommended for those students seeking K–8 certification who are particularly interested in teaching science at the K–5 level. The coursework in this minor provides a foundation of scientific principles required to teach the Washington Essential Academic Learning Requirements for grades K–5.

Completion of this minor, the General Degree Completion Requirements for Elementary Education and a major field of study satisfies the state requirements for an Elementary Education teaching endorsement.

This minor does not fulfill the state middle-level science endorsement.

Notes:
- see Education, for prerequisites, core requirements and additional SLOs;
- required courses in the following program of study may have prerequisites.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>INVESTIGATING BIOLOGY</td>
<td>5</td>
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<tr>
<td>GEOG 115</td>
<td>INVESTIGATING EARTH SCIENCE</td>
<td>5</td>
</tr>
<tr>
<td>or GEOL 115</td>
<td>INVESTIGATING EARTH SCIENCE</td>
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</tr>
</tbody>
</table>

**Electives—choose one course from each area listed below**

Note: other courses can be approved by a Natural Science Advisor.

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>BIOL 100</td>
<td>INTRODUCTION TO BIOLOGY</td>
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<td>BIOL 171</td>
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**Earth Science**

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
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<td>FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT</td>
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<tr>
<td>GEG 305</td>
<td>INTRO TO OCEANOGRAPHY</td>
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<tr>
<td>GEOL 100</td>
<td>DISCOVERING GEOLOGY</td>
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**Physical Science**

<table>
<thead>
<tr>
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<tr>
<td>CHEM 121</td>
<td>CHEMISTRY AND ITS ROLE IN SOCIETY</td>
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<tr>
<td>CHEM 161</td>
<td>GENERAL CHEMISTRY FOR THE HEALTH SCIENCES</td>
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<tr>
<td>PHYS 100</td>
<td>PHYSICAL SCIENCE I</td>
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<tr>
<td>PHYS 121</td>
<td>DESCRIPTIVE ASTRONOMY</td>
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</table>

**Total Credits**

30
Physics
Robin McRae, Chair
department page (https://www.ewu.edu/cstem/programs/physics)
226 Science Bldg.
509.359.2798

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
  • Physics (p. 280)

Bachelor of Arts in Education (BAE)
  • Physics/Secondary (p. 281)

Bachelor of Science (BS)
  • Physics (p. 280)

Undergraduate Minors
  • Physics (p. 281)
  • Physics/Secondary (p. 282)

Teacher Certification/Add-on Endorsements
  • General Science/Add-on Endorsement (p. 282)

Undergraduate Programs
Physics is the study of the physical environment and the laws governing the behavior of particles, fields and space/time. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, solid state physics and many other topics. In general, physics strives for a mathematical description of the laws of nature at the most fundamental level and is therefore the most mathematical of the basic sciences.

Employment opportunities have been plentiful for physicists in recent years, especially for those with strong backgrounds in electrical instrumentation and computer electronics. Careers in research and development are available in many companies and federal agencies. The armed forces recruit technically trained people, especially physicists, to become officers and offer further educational opportunities to those selected. Secondary teaching positions in math and science are readily available. Careers exist in technical sales. Many students go on to graduate school for advanced degrees before starting a career. Advanced degrees lead to community college and university faculty positions, as well as increased opportunities for leadership roles in research and management.

In addition to its degree programs, the department provides several components to the university community in general and to a wide variety of majors in other disciplines. Introductory Physics and General Physics are supporting courses for such degree programs as chemistry and geology and are required courses for schools of physical therapy and medicine. General Physics is required in all schools of engineering.

General Admissions and Preparation Information for Physics:
Beginning physics students are advised to start the PHYS 151, PHYS 152, PHYS 153, PHYS 221 sequence as soon as possible. This can be done fall quarter if the student is also prepared to enroll in MATH 161. Otherwise the student should take MATH 141, MATH 142 and MATH 161 their first year and be prepared to enroll in PHYS 151 the following fall quarter. Bachelor of Science majors should complete the required chemistry sequence and as much of the General Education Core Requirements as possible during the first two years.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Physics Major, Bachelor of Arts (BA)
The Bachelor of Arts degree allows the student to acquire a physics degree with strong emphasis in one or more related fields of study. This degree is ideal preparation for graduate work in such areas as geophysics, biophysics and physical chemistry. Physics graduates also commonly enter graduate schools in engineering fields.

Notes:
  • two years of a single high school foreign language or one year of a single college level foreign language is required;
  • this major requires the completion of a minor.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>GENERAL PHYSICS II</td>
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<td>PHYS 153</td>
<td>GENERAL PHYSICS III</td>
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<td>PHYS 162</td>
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<td>PHYS 163</td>
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<tr>
<td>PHYS 221</td>
<td>GENERAL PHYSICS IV</td>
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</tbody>
</table>

Electives—choose in consultation with advisor; courses are subject to approval by the Physics Department.

Total Credits 45

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
  • demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism);
  • make and interpret laboratory measurements in physics;
  • write effectively using the language of physics.

Physics Major, Bachelor of Science (BS)
The Bachelor of Science program is designed primarily for students preparing for graduate studies in physics and for students planning for a professional career in physics.

Required Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM 151</td>
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<td>MATH 161</td>
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<td>MATH 241</td>
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<td>MATH 347</td>
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</table>

Total Credits: 104

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- write effectively using the language of physics;
- make and interpret laboratory measurements in physics;
- demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism).

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**Physics Minor**

**Required Courses**

<table>
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<th>Course Code</th>
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Total Credits: 20

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

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**Physics/Secondary Major, Bachelor of Arts in Education (BAE)**

This major satisfies the endorsement for grades 5–12.

**Notes:**

- see the Education Department for prerequisites, core requirements and additional SLOs;
- this major does not require the completion of a minor—students are encouraged to complete a secondary endorsement in at least one other subject area.

**Required Secondary Education Core**

30–hour multicultural education field requirement

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>EDUC 309</td>
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EDUC 201    | INTRODUCTION TO EDUCATION    | 3       |
EDUC 341    | SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT | 4 |
EDUC 413    | CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES | 4 |
EDUC 420    | ADMISSION TO PROFESSIONAL CANDIDACY | 1       |
EDUC 426    | SECONDARY STUDENT TEACHING 7-12 | 15      |
PSYC 304    | EDUCATIONAL PSYCHOLOGY       | 5       |
SPED 363    | INTRODUCTION TO SPECIAL EDUCATION | 4       |

**Required Physics/Secondary Courses**

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<tr>
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</table>

Total Credits: 114

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

---

**Physics/Secondary Major, Bachelor of Arts in Education (BAE)**

This major satisfies the endorsement for grades 5–12.

**Notes:**

- see the Education Department for prerequisites, core requirements and additional SLOs;
- this major does not require the completion of a minor—students are encouraged to complete a secondary endorsement in at least one other subject area.

**Required Secondary Education Core**

30–hour multicultural education field requirement

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EDUC 341    | SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT | 4 |
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**Required Physics/Secondary Courses**

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<td>2</td>
</tr>
</tbody>
</table>

Total Credits: 114

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

---
Note: see Education for additional SLOs.

- demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism);
- write effectively using the language of physics;
- make and interpret laboratory measurements in physics.

Physics/Secondary Minor

This minor satisfies the endorsement for grades 5-12.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 151</td>
<td>GENERAL PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 152</td>
<td>GENERAL PHYSICS II</td>
<td>4</td>
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<tr>
<td>PHYS 153</td>
<td>GENERAL PHYSICS III</td>
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<td>PHYS 161</td>
<td>MECHANICS LABORATORY</td>
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<tr>
<td>PHYS 162</td>
<td>HEAT AND OPTICS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>INSTRUMENTATION LAB I</td>
<td>1</td>
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<tr>
<td>PHYS 164</td>
<td>INSTRUMENTATION LAB II</td>
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<tr>
<td>PHYS 221</td>
<td>GENERAL PHYSICS IV</td>
<td>4</td>
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<tr>
<td>PHYS 495</td>
<td>INTERNSHIP (must be taken for at least 4 credits)</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Total Credits 24-25

Teacher Certification/Add-on Endorsements

Note: for students who currently possess a Washington State Teaching Certificate.

This add-on satisfies the General Science endorsement and allows teachers to teach any science grades 5–12.

To improve their marketability as science teachers, students may wish to complete this option in addition to their BAE in Biology, Chemistry, Earth and Space Science or Physics.

For students who currently possess a Washington State Teaching Certificate.

- This add-on satisfies the General Science endorsement and allows teachers to teach any science grades 5–12.
- To improve their marketability as science teachers, students may wish to complete this option in addition to their BAE in Biology, Chemistry, Earth and Space Science or Physics.

Individuals with an endorsement in one of the sciences can receive a General Science Endorsement if they are successful in passing the General Science West E exam. However, we recommend taking the following courses in order to increase the likelihood of passing the exam.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<td>BIOL 172</td>
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<td>BIOL 173</td>
<td>BIOLOGY III</td>
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<td>CHEM 152</td>
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<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
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<tr>
<td>GEOL 120</td>
<td>PHYSICAL GEOLOGY - THE SOLID EARTH</td>
<td>5</td>
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</tbody>
</table>
Pre-Dentistry and Pre-Medicine

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 341)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Pre-Dentistry and Pre-Medicine

College of Science, Technology, Engineering, and Mathematics
Department of Biology

Rebecca Brown
David Daberkow
Charles Herr
Joanna Joyner-Matos
289 Science Bld.
509.359.2339

Link to: Pre-Dentistry/Pre-Medicine guide (https://www.ewu.edu/Documents/CSTEM/Biology/PreMedDent%202013(1).pdf)

Department of Chemistry / Biochemistry

Nick Burgis
Jeff Corkill
226 Science Bld.
509.359.244

Undergraduate Programs

Admission requirements for Schools of Medicine, Dentistry or Veterinary Medicine are typically satisfied by a Bachelor of Science degree in either biology or chemistry with substantial coursework from both disciplines. The requirements of these professional schools are so demanding and frequently variable that it is imperative students contact a pre-medical, pre-dental or pre-veterinary medicine advisor immediately upon deciding to earn a degree in one of these areas and work closely with that advisor in developing a complete curriculum. The program of study may vary for each student dependent on his/her preparation, background or specific interests. Other majors may be chosen if the basic requirements are met (two years each of biology and chemistry, one year of physics with supporting mathematics and typically one year of biochemistry and/or molecular biology). As a part of the selection process for admission to professional school, pre-medical and pre-dental students must also take a nationally administered evaluative test (Medical College Admission Test or Dental College Admission Test respectively); these tests are largely based on the science requirements previously noted, Mathematics Applied Quantitative Assessments, English Comprehension and writing. Since the MCAT or DAT is typically taken either at the end of the third or beginning of the fourth academic year, it is imperative that students complete the basic science requirements during the first three years of study. For additional curriculum information and a complete list of courses required in a four-year program of study leading to the Bachelor of Science degree, see major option descriptions under the Biology or Chemistry/Biochemistry Departments. Note that majors in these areas of study offered by the two departments principally differ only in the fourth year.

Because admission requirements can vary between individual professional schools, it is imperative that students directly contact schools of interest and ascertain specific requirements prior to the application process. Publications such as Medical School Admission Requirements and Admission Requirements of American Dental Schools provide profile information on a school-by-school basis regarding admitted students. Students must realize that admission to professional school is highly competitive and thus uncertain—nothing assures admission.

General Admissions Requirements for Majors in Pre-Medicine, Pre-Dentistry or Pre-Veterinary Medicine

In order to complete degree requirements in four years and be prepared for professional school admission tests at the end of three, it is essential that students are enrolled in college-level chemistry and biology courses at the inception of their pre-professional curriculum. Thus preparation at the high school level should include one year each of biology, chemistry and physics as well as three or four years each of English and mathematics (through pre-calculus). Students transferring from other institutions including community colleges should consult with Eastern’s Admissions Office for information regarding course equivalencies. Students are encouraged to contact Eastern’s pre-professional advisors prior to enrollment.

See the Department of Biology or Chemistry/Biochemistry sections of this catalog for curriculum descriptions.
Pre-Engineering

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 341)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Pre-Engineering

College of Science, Health & Engineering
Department of Engineering & Design

Program Description (see Engineering & Design)

Donald C. Richter, Program Advisor
319E CEB
509.359.2880
Pre-Pharmacy

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 314)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Pre-Pharmacy

College of Science, Technology, Engineering, and Mathematics
Department of Biology

Pre-Pharmacy guide (https://www.ewu.edu/Documents/CSTEM/Biology/2013%20Pre%20Pharm%20Modified.pdf)

Suzanne Schwab
258 Science Bld.
509.359.2339

Department of Chemistry / Biochemistry

Nick Burgis
Jeff Corkill
226 Science Bld.
509.359.2447

Pharmacy occupies both a unique and varied position within the health sciences. Undergraduate pharmacy education is largely founded in the biological and chemical sciences and is integrated with coursework in the humanities and social sciences. The curriculum of a school of pharmacy is designed to prepare graduates for a variety of professional careers. These include the practice of community retail and hospital pharmacy, clinical pharmacy, research or sales in the pharmaceutical industry and regulatory and administrative positions at either the state or federal level. Traditionally the pharmacist has been among the most accessible of the health-care team, serving as the first source of advice and assistance for common medical disorders. At present, due to an increased clinical emphasis in pharmacy education, pharmacists are more frequently involved in a direct, patient-oriented practice that includes responsibilities such as selecting and dispensing drug products, monitoring drug interactions and counseling patients.

Degree Information for Pharmacy

Most schools of pharmacy offer only one degree in pharmacy: the Doctor of Pharmacy (Pharm. D.). The Pharm. D. degree qualifies the student to take the State Board of Pharmacy Licensing Examination, a requirement for the practice of pharmacy in any state. The academic program leading to the Pharm. D. degree is divided in two parts. The first, termed the pre-professional program provides coursework in the basic sciences, mathematics, English, humanities and social sciences. The second, termed the professional program (four years) provides academic exposure to the practice of pharmacy and includes coursework in areas such as biochemistry, medicinal chemistry, pharmacology, anatomy, physiology, dispensing, law, therapeutics, pharmacokinetics and biostatistics. In addition, clerkships in community and clinical settings are required. Students should contact pharmacy schools of interest to determine specific pre-professional course requirements, and should also contact EWU pre-pharmacy advisors.

Admissions Requirements/Preparation

Due to the time requirement necessary for completion of the Pharm. D. degree and substantial prerequisites for courses in the professional portion of the program, students should be prepared to begin college level chemistry and biology at the inception of their pre-professional curriculum. Thus students interested in pre-pharmacy should complete one year of both high school chemistry and biology, as well as mathematics through pre-calculus prior to enrollment at EWU. Students transferring from other institutions, including community colleges, should consult with the Admissions Office for information regarding course equivalencies. Students are encouraged to contact Eastern’s pre-pharmacy advisors prior to enrollment or early in their academic program.

Admission to a school of pharmacy is highly competitive. Application to a school is normally initiated one year prior to transfer and may include application to both the university and the school. In addition to completion of pre-professional course requirements with a satisfactory GPA, the school will likely require a personal interview and/or successful completion of the Pharmacy College Admission Test (PCAT), a nationally administered evaluative test.
Pre-Veterinary Medicine

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 341)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Pre-Veterinary Medicine

College of Science, Technology, Engineering, and Mathematics

Department of Biology
Krisztian Magori
258 Science Bld.
509.359.2339

Link to Pre-Veterinary Medicine guide (https://www.ewu.edu/Documents/CSTEM/Biology/2013%20Pre%20Vet.pdf)

Department of Chemistry / Biochemistry
Nick Burgis
Jeff Corkill
226 Science Bld.
509.359.2447

Program Description (See Chemistry/Biochemistry)
Generally, students will apply to a Veterinary Medicine College for their professional training and will thus tailor their programs accordingly. We strongly recommend that students planning a career in veterinary medicine contact the school(s) of their choice to learn their most current admission requirements. Contacting the program advisor is strongly advised.

General Admissions Requirements for Pre-Veterinary Medicine
Applicants are now required to take the General Aptitude Test of the Graduate Record Examination; scores will be included in the assessment of scholastic achievement. The last date to register for this exam is late in September. A minimum of 300 hours of practical experience, under the supervision of a graduate veterinarian, is an essential requirement in the selection process for most colleges.

See the Department of Biology section of this catalog.
COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES AND SOCIAL WORK

Departments, programs and degrees are listed on the navigation bar.
CSS home page (http://www.ewu.edu/csbssw)
Addiction Studies
Grace Creasman, Director
department page (https://www.ewu.edu/css/programs/addiction-studies)
668 N. Riverpoint Blvd. 239
509.828.1437
Jenna Redhawk, Program Coordinator
509.828.1436

Faculty
Grace Creasman, Hayley N. Lake, Allison R. Metzler.

Undergraduate Degrees
Bachelor of Arts (BA)
• Interdisciplinary Studies: Addiction Studies (p. 290)

Undergraduate Certificates
• Addiction Studies Suicide Assessment, Treatment and Management Certificate (p. 290)

Undergraduate Minors
• Addiction Counseling and Prevention Minor (p. 289)

Undergraduate Program
Addiction Studies (ADST) is an approved education provider with NAADAC, The Association for Addiction Professionals. ADST provides university-level education valuable for students in a variety of disciplines such as health education, criminal justice, social work, education, psychology, and other fields of study to enhance the effectiveness of their careers. ADST courses expose students to the multiple demands of working in a treatment agency that can be transferred to other work environments. Employers are especially eager to hire students with a foundation in Addiction Studies coursework as part of their major program.

The main focus of our Interdisciplinary Bachelor of Arts degree is to provide students the educational requirements to prepare them for Washington state certification as Chemical Dependency Professionals. Students who complete all state required courses for certification are eligible to take the NAADAC Exam before completing other state requirements.

Mission Statement
• Addiction Studies fosters the concept of Transformative Learning following the basic tenet: you cannot change anyone but yourself.
• Addiction Studies strives to provide opportunities for students to become aware and critical of their own and others’ assumptions and to recognize frames of reference using their sociological imaginations to redefine problems from a different perspective.
• As we change the way we react and behave in our environments, others around us may also be transformed, thereby enhancing community consciousness.

General Admission Requirements for Addiction Studies
Undergraduate students interested in completing one of our program options can schedule a meeting (either via email or phone) with the director of Addiction Studies. Transfer students from another addiction/chemical dependency program will want to contact the director to evaluate previous coursework for inclusion in the ADST program.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Graduate Certificates
• Addiction Studies (p. 289)
• Addiction Studies LP (p. 289)

The Addiction Studies Graduate Certificate is designed for persons who have completed a bachelor or master’s degree with a background in social work or a related field who are interested in obtaining coursework leading to certification as a Chemical Dependency Professional in Washington state.

Students without a background in social work, or related field, may need to complete additional coursework to qualify for Washington state certification.

State Certification as a Chemical Dependency Professional in Washington also requires:
• students applying with a BA degree 2000 hours in a state approved addiction treatment agency
• students applying with a Master’s degree 1500 hours in a state approved addiction treatment agency
• students will need to take and pass the NAADAC, NCC AP Level II Exam.
• students completing the ADST certificate courses are eligible to take the NCC AP Level II exam. Contact ADST for more information.

Students from other states may need to check with their local certification boards to be sure this program will meet their state requirements.

In an effort to accommodate students from across Washington state or other states all courses are taught online. Addiction Studies faculty and staff are available for personal academic advising for prospective and current student needs.

A practicum option is available for students but is not required for the certificate.

Optional Practicum
ADST 595 and ADST 695
Students who are not currently working in a treatment agency may benefit from the practicum experience. Practicum hours may count toward Washington state certification required hours.

Admission Requirements
Completion of a bachelor’s or master’s degree with a cumulative GPA ≥3.0.

Prerequisite
Students pursuing Washington state certification as Chemical Dependency Professionals may need to take additional coursework to
Qualify for licensure. Washington state requires students to have 45 quarter or 60 semester credits in addiction related coursework to cover required competencies. ADST provides the bulk of those competencies in the Graduate Certificate as many times students have taken other courses to cover the additional requirements.

Additional requirements may include, ADST 505, ADST 502, and ADST 303 covering Brief Risk Intervention. A course in Human Development, Developmental Models and Theories or Lifespan Development is also required.

Note: student transcripts are evaluated to determine if these additional course competencies are covered in previous coursework.

Program Requirements
Meet Graduate Studies admission requirements (http://www.ewu.edu/Grad/Application-Procedures), consult with ADST director or advisor to discuss program requirements, contact Addiction Studies (http://www.ewu.edu/adst) at 509.828.1436 for further information.

Addiction Counseling and Prevention Minor
Completion of the ADST Minor is geared toward preparing students for work in both the addiction treatment and prevention arenas.

Required Courses
ADST 300 SURVEY OF ALCOHOL/DRUG PROBLEMS 4
ADST 302 COUNSELING THEORIES FOR THE ADDICTION PROFESSIONAL 4
ADST 303 HIV/AIDS AND ADDICTION TREATMENT 2
ADST 410 COMMUNITY PREVENTION METHODS 4
ADST 412 PHYSIOLOGY AND PHARMACOLOGY OF ADDICTIONS 4
ADST 420 ALCOHOL/DRUG CASE MANAGEMENT 4
ADST 430 ADDICTION TREATMENT WITH FAMILIES 4
ADST 440 ALCOHOL/DRUG GROUP COUNSELING 3

Practicum 1
ADST 350 ADDICTION STUDIES PRACTICUM SEMINAR 1
ADST 385 ADDICTION STUDIES PRACTICUM I 2
ADST 485 ADDICTION STUDIES PRACTICUM II 2

Total Credits 34

Note: minor option available without practicum for students who do not plan to work in the field of Addiction Treatment or Prevention. Contact program director for approval.

Addiction Studies Graduate Certificate

Addiction Studies Licensed Professionals Graduate Certificate

Admission Requirements
Completion of a bachelor’s or master’s degree with a cumulative GPA ≥3.0.

Students attending this program must already be licensed in one of the health care professions listed below:

- advanced registered nurse practitioners;
- marriage and family therapists, mental health counselors, advanced social workers or independent clinical social workers;
- psychologists;
- osteopathic physicians;
- osteopathic physician assistants;
- physicians;
- physician assistants.

Required Courses
ADST 502 COUNSELING THEORIES FOR ADDICTION PROFESSIONALS 2
ADST 505 ADDICTION GROUP COUNSELING 2

Optional Practicum
Students who are not currently working in a treatment agency may benefit from the practicum experience. Practicum hours may count toward Washington state certification required hours.

ADST 595 ALCOHOL/DRUG PRACTICUM I 1-4
ADST 695 ALCOHOL/DRUG PRACTICUM II 1-4

Student Learning Outcomes—students will

- demonstrate the competency-based knowledge and skills required for working in addiction treatment;
- understand the underlying causes of addictions and approaches to intervention, including assessment, treatment, relapse prevention, case management and self-help;
- recognize the potential for substance-use disorders to mimic a variety of medical and mental health conditions and the potential for medical and mental health conditions to co-exist with addiction and substance abuse;
- describe the behavioral, psychological, physical health and social effects of psychoactive substances on the person using and significant others;
- recognize the social, political, economic and cultural context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups in their living environments.

Addiction Studies Licensed Professionals Graduate Certificate

Admission Requirements
Completion of a bachelor’s or master’s degree with a cumulative GPA ≥3.0.

Students attending this program must already be licensed in one of the health care professions listed below:

- advanced registered nurse practitioners;
- marriage and family therapists, mental health counselors, advanced social workers or independent clinical social workers;
- psychologists;
- osteopathic physicians;
- osteopathic physician assistants;
- physicians;
- physician assistants.

Required Courses
ADST 502 COUNSELING THEORIES FOR ADDICTION PROFESSIONALS 2
ADST 505 ADDICTION GROUP COUNSELING 2
ADST 512 PHARMACOLOGICAL ACTIONS OF ALCOHOL AND OTHER DRUGS 4
ADST 520 CASE MANAGEMENT 4
ADST 530 ADDICTION TREATMENT WITH FAMILIES AND DIVERSE POPULATIONS 4
ADST 535 LAW AND ETHICS FOR ADDICTION PROFESSIONALS 4

Total Credits 20

Student Learning Outcomes: students will:
• understand the underlying causes of addictions and approaches to intervention, including assessment, treatment, and case management;
• describe the behavioral, psychological, physical health and social effects of psychoactive substances on the person using and significant others;
• identify and describe professional codes of ethics that define the professional context within which the counselor works, in order to maintain professional standards and safeguard the client;
• identify the basic components necessary to conduct an effective group session;
• understand a variety of models and theories of addiction counseling.

Addiction Studies Suicide Assessment, Treatment and Management Certificate

This certificate enhances development and promotion of effective clinical and professional practice of assessment, treatment and management of suicidal behaviors. Courses provide an overview of the addiction process and issues related to suicide and mental health and explores the prevention public health model.

Required Courses
ADST 300 SURVEY OF ALCOHOL/DRUG PROBLEMS 4
ADST 302 COUNSELING THEORIES FOR THE ADDICTION PROFESSIONAL 4
ADST 303 HIV/AIDS AND ADDICTION TREATMENT 2
ADST 308 CULTURAL ISSUES IN ADDICTION TREATMENT AND BEHAVIORAL HEALTH 4
ADST 410 COMMUNITY PREVENTION METHODS 4
ADST 412 PHYSIOLOGY AND PHARMACOLOGY OF ADDICTIONS 4
ADST 420 ALCOHOL/DRUG CASE MANAGEMENT 4
ADST 430 ADDICTION TREATMENT WITH FAMILIES 4
ADST 442 SCREENING AND ASSESSMENT FOR CO-OCurring DISORDERS 4
ADST 460 LAW AND ETHICS FOR ADDICTION PROFESSIONALS 4
ADST 462 ADOLESCENT ADDICTION ASSESSMENT AND TREATMENT 4
ADST 464 RELAPSE PREVENTION 2

Optional Practicum Placement is available for students who are not currently working in addiction treatment.

ADST 350 ADDICTION STUDIES PRACTICUM SEMINAR
ADST 385 ADDICTION STUDIES PRACTICUM I
ADST 485 ADDICTION STUDIES PRACTICUM II

Additional required upper division credits in a single complementary subject area. One course each in Abnormal Psychology and Human Development are also required for state certification.

Additional Requirement for an Interdisciplinary Studies Bachelor of Arts is a Senior Capstone approved by program director.

Total Credits 67

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• demonstrate basic knowledge about substance use disorders;
• demonstrate familiarity with behavior change and recovery models;
• apply intervention and recovery knowledge and methods to practice;
• demonstrate competence around issues related to self-awareness, diversity, ethics and continuing education.
Africana Education Program

Scott Finnie, Program Director
department page (https://www.ewu.edu/css/programs/africana-studies-program/aep-faculty)
204 Monroe Hall
509.359.6150

Faculty
Scott M. Finnie, Okera Nsobmi, Angela R. Schwendiman.

Undergraduate Degrees

Bachelor of Arts (BA)
• Race and Culture Studies Major (See Race and Culture Studies (p. 352))

Undergraduate Minors
• Africana Studies (p. 291)
• Race and Culture Studies (See Race and Culture Studies (p. 352))

Undergraduate Program
The primary mission of Africana Studies is to help broaden student perspectives through a multidisciplinary curriculum that explores the experiences, contributions and accomplishments of African Americans and other peoples of African descent; and, to assist in the development of culturally competent students for a broad range of academic and professional careers.

Africana Studies courses are designed to provide understanding and appreciation of the African Diaspora both as it has unfolded over time and as it is currently manifested. As part of its founding mission, Africana Studies also provides culturally-centered programming, academic support, and community outreach initiatives. These include community non-paid internships, textbook support, academic advising, peer mentoring, tutoring services, scholarships and scholarship information.

The Africana Studies Program cross-lists with some courses offered through other EWU colleges.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Africana Studies Minor
The program offers a minor in Africana Studies. Students gain an understanding of the African America, Caribbean and African experiences from ancient Africa to present-day. Africana Studies benefits graduates planning careers in professions where multicultural public contact is extensive, such as education, counseling, social services, medicine, government and many other fields that require diverse perspectives. Students considering this minor should contact the director of Africana Studies.

Required Courses

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<tr>
<th>Course</th>
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<tr>
<td>AAST 214</td>
<td>AFRICAN AMERICAN CULTURE AND EXPRESSIONS</td>
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<tr>
<td>AAST 215</td>
<td>EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877</td>
<td>5</td>
</tr>
<tr>
<td>or AAST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
<td></td>
</tr>
</tbody>
</table>

Required Electives—choose upper-division courses in consultation with the AAST program director.

Total Credits 20
Aging Studies
Sharon Bowland, Director
program page (https://www.ewu.edu/css/programs/aging-studies)
229 Senior Hall
509.359.4538

Faculty
S. Bowland.

Undergraduate Minors
• Aging Studies (Interdisciplinary), Minor (p. 292)

Undergraduate Program
The Center for Studies in Aging, administratively located within the College of Social & Behavioral Sciences and Social Work, serves as the coordinating entity for the university’s multidisciplinary aging studies minor. This program draws upon the university’s existing resources in such fields as social work, sociology, biology, psychology, nursing, nutrition and dietetics, health sciences, recreation and leisure services, physical education, economics and various ethnic studies programs. The program is designed to prepare students for careers in the development, management and provision of services to older persons. Such careers include: management of public and private agencies serving older persons, administration of residential care facilities for the elderly and the management and direction of social, leisure and health services to older persons.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Aging Studies (Interdisciplinary) Minor

Required Courses
AGST 310  MULTIDISCIPLINARY STUDIES IN AGING  5
AGST 410  MINORITY PERSPECTIVES IN AGING  3

Electives
Select from the following:  12

<table>
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<tr>
<td>BIOL 343</td>
<td>BIOLOGY OF AGING</td>
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<tr>
<td>AGST 456</td>
<td>THE OLDER WOMAN</td>
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<tr>
<td>or SOWK 456</td>
<td>THE OLDER WOMAN</td>
</tr>
<tr>
<td>or WMST 456</td>
<td>THE OLDER WOMEN</td>
</tr>
<tr>
<td>AGST 457</td>
<td>CLINICAL ASSESSMENT IN MIDLIFE AND OLDER ADULTS</td>
</tr>
<tr>
<td>or SOWK 457</td>
<td>CLINICAL ASSESSMENT IN MIDLIFE AND OLDER ADULTS</td>
</tr>
<tr>
<td>AGST 458</td>
<td>PERSPECTIVES ON DEATH AND DYING</td>
</tr>
<tr>
<td>or SOWK 458</td>
<td>PERSPECTIVES ON DEATH AND DYING</td>
</tr>
</tbody>
</table>

Field Practicum
Note: the field practicum of 5 credits is required of those students not having completed a practicum in aging in their major.  0-5

Total Credits  20-25
American Indian Studies

Deirdre Almeida, Program Director
Nicole DeVon, Program Counselor/ Recruiter
department page (https://www.ewu.edu/css/programs/american-indian-studies)
American Indian Education Center
509.359.2441
509.359.6665

Faculty

Deidre A. Almeida.

Undergraduate Degrees

Bachelor of Arts (BA)

- Race and Culture Studies (See Race and Culture Studies (p. 352))

Undergraduate Minors

- Indian Studies (p. 293)
- Race and Culture Studies (See Race and Culture Studies (p. 352))

Undergraduate Programs

The American Indian Studies Program (IDST) consists of

1. Academic Affairs,
2. Student Services and
3. Tribal Organization/Agency Liaison components.

The Academic Affairs function is fulfilled by a minor in Indian Studies and service course offerings in other professional disciplines. The IDST curriculum is designed to develop the cultural and civic co-competencies of students in preparation for professional employment by complementing their learning experiences in an interdisciplinary learning environment at EWU. Indigenous intellectual traditions constitute the philosophy of education for IDST. The student services function is fulfilled by a program counselor/recruiter who provides services in student recruitment, admissions, financial aid, academic advising, employment, housing, tutoring, counseling and career development. The program staff also serves as advisors to the Native American Student Association. The tribal organization/agency function is fulfilled through formal and informal working relationships with regional tribal governments, education organizations and social service agencies.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.

Indian Studies Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDST 101</td>
<td>INTRODUCTION TO INDIAN STUDIES</td>
<td>5</td>
</tr>
<tr>
<td>IDST 321</td>
<td>CONTEMPORARY INDIAN ISSUES</td>
<td>5</td>
</tr>
</tbody>
</table>

Electives—choose two upper-division IDST courses in consultation with the department advisor 8-10

Total Credits 18-20
Undergraduate Degrees
Bachelor of Arts (BA)

- Anthropology (p. 294)

Undergraduate Minors

- Anthropology (p. 294)
- Archaeology (p. 295)

Undergraduate Programs
The Department of Geography and Anthropology offers both a major and a minor in anthropology. Anthropology offers students the opportunity to broaden their exposure to peoples and cultures of the world, both now and in the past. The four-field approach considers the biological, cultural, prehistoric/historic and linguistic aspects of the human condition. Specifically, the Bachelor of Arts degree in Anthropology is designed to meet the needs of students who want to:

1. broaden their undergraduate exposure to other peoples and cultures of the world as a part of their general education;
2. prepare for graduate studies in Anthropology; or
3. undertake an undergraduate program leading to work in such fields as social work, law and forensics, as well as business and other occupations interacting with ethnically diverse populations or international agencies and companies.

The department also has a research unit, Archaeological and Historical Services, where students can volunteer and some internships may be arranged both with AHS and other entities. The department has a number of physical facilities available for student use, including a physical anthropology laboratory, a cartography laboratory, a GIS laboratory and a map library.

Optional Requirements for Anthropology
Anthropology students who plan to become candidates for advanced degrees are advised to complete two years of a foreign language and a course in statistics.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Anthropology Major, Bachelor of Arts (BA)

Notes:
- two years of a single high school foreign language or one year of a single college level foreign language is required for this major;
- the Anthropology major does not require a minor.

Required Courses
Disciplinary Foundation Course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>CULTURAL ANTHROPOLOGY</td>
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</tbody>
</table>

CSBS Foundation Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSBS 310</td>
<td>FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY</td>
<td>5</td>
</tr>
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</table>

Choose one of the following courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH 405</td>
<td>CRITICAL ANALYSIS IN ANTHROPOLOGY</td>
<td>3-5</td>
</tr>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td></td>
</tr>
<tr>
<td>GEOG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
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</tr>
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</table>

Disciplinary Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 301</td>
<td>PRINCIPLES OF ARCHAEOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 345</td>
<td>PHYSICAL ANTHROPOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 401</td>
<td>ANTHROPOLOGICAL RESEARCH METHODS</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 444</td>
<td>DEVELOPMENT OF ANTHROPOLOGICAL THEORY</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 445</td>
<td>ANTHROPOLOGICAL LINGUISTICS</td>
<td>5</td>
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<tr>
<td>ANTH 490</td>
<td>SENIOR CAPSTONE</td>
<td>4</td>
</tr>
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</table>

Assessment

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH 493</td>
<td>PORTFOLIO ASSESSMENT</td>
<td>1</td>
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</tbody>
</table>

Electives - choose one of the following

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-30</td>
</tr>
</tbody>
</table>

Note: the student majoring in anthropology may do more than this elective minimum.

A. Traditional four-field emphasis in Anthropology: choose an additional 30 credits from any courses with an ANTH prefix.

B. A certificate program: select one of the focused, interdisciplinary certificates approved for the ANTH major (consult department for list) 25-30 credits.

C. Specialization focus: under certain circumstances the student majoring in anthropology, in consultation with the advisor and chair, may design a set of 30 credits of electives that best prepares students for a speciality in anthropology they wish to pursue.

Total Credits 68-75

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate basic knowledge of the four anthropological sub disciplines: cultural anthropology, archaeology, linguistic anthropology and physical anthropology;
- demonstrate basic knowledge of the history of anthropology;
- demonstrate basic knowledge of anthropological theory;
- demonstrate critical reasoning required to use the knowledge of anthropology s/he has learned;
- demonstrate communication skills required to use the knowledge of anthropology s/he has learned.

Anthropology Minor

Required Course
ANTH 101  CULTURAL ANTHROPOLOGY  5

Electives  10
Select upper-division anthropology courses in consultation with department advisor.

Total Credits  15

Archaeology Minor

Required Courses
ANTH 204  ARCHAEOLOGICAL SCIENCE  5
ANTH 456  WORLD ARCHAEOLOGY  5

Elective—choose upper-division archaeology course in consultation with department advisor.  5

Total Credits  15

Student Learning Outcomes—students will
• gain knowledge of archaeological site history, archaeological practices and methods and archaeological analysis;
• demonstrate understanding of broad trends within human social, cultural, political and economic development as expressed through the study and analysis of material remains.
Chicana Education

Elisa Facio, Program Director

Undergraduate Degrees

Bachelor of Arts (BA)
- Race and Culture Studies Major (See Race and Culture Studies (p. 352))

Undergraduate Minors
- Chicano-Latino Studies (p. 296)
- Race and Culture Studies Minor (See Race and Culture Studies (p. 352))

Undergraduate Program

The Chicana/Chicano Education Program (CEP) employs a dual mission at Eastern Washington University (EWU). The program’s first mission is to significantly contribute toward enhancing opportunities for the participation of Chicano and Latino students in higher education. This mission is achieved by vigorously recruiting Chicano and Latino students, and providing the essential support needed for experiencing a positive and successful academic career at Eastern Washington University. A parallel CEP mission is augmenting EWU’s goal in addressing diversity by providing all students, regardless of ethnicity, with a critical Chicano/ Latino Studies curriculum resulting in a comprehensive and holistic understanding and appreciation of Chicano and Latino communities. Furthermore, CEP is committed to enacting initiatives that sustains the Program’s dual mission. The Chicana/Chicano Education Program is therefore structurally divided into three distinct program components.

Recruitment

The Chicana/Chicano Education Program’s student recruitment efforts involve various activities aimed at encouraging Chicano and Latino students to pursue educational opportunities at EWU. Specific recruitment activities include visiting high schools and community colleges; staging university based student visitations; participating in educational and community career fairs; utilizing Spanish media (radio, television and newspapers) to disseminate information about educational opportunities at EWU, networking with Chicano/Latino community organizations and other recruitment-focused initiatives.

Support Services

The Chicana/Chicano Education Program also provides a variety of academic and non-academic support services for students. Such services include academic advising, scholarship information and scholarships, mentor relationships, culturally based initiatives, linkages for tutoring needs, a college orientation class and other related student support services. More specifically, CEP assists student transition into the university by advocating on the students’ behalf with other university departments and offices (i.e., Admissions Office, Financial Aid, Housing and Residential Life). Additionally, CEP assists students in becoming familiar with university regulations and practices.

The Chicana/Chicano Education Program also houses the CAMP program (College Assistance Migrant Program), which is designed to recruit and retain migrant students during their first year of college at EWU. The CAMP program provides an array of comprehensive and essential academic support services and financial assistance for CAMP student participants.

Chicana Studies

CEP offers a Chicana/Chicano Studies academic minor designed to provide all students, regardless of ethnicity, a comprehensive, interdisciplinary, and critical understanding and appreciation of Chicano and Latino communities. CEP focuses primarily on Chicano and Latino historical experiences of colonization and neo-colonization, economic and cultural contributions to US society, and historical and contemporary struggles, movements, and strategies of survival.

CEP’s Chicana/Chicano Studies offerings include lower and upper division coursework. The Chicana/Chicano Studies minor provides students with an inclusive and interdisciplinary understanding of the Chicano and Latino experience in the U.S. Specifically, the minor prepares students for the rapidly changing demographic trends in the U.S. and provides critical knowledge and skills necessary to contribute to a racially and culturally diverse society. In tandem with this approach, CEP offers a rigorous academic program of study that prepares students for graduate and professional schools, the work force, and employment in community based organizations or the non-profit industrial complex.

While the minor is especially suited for those students applying to graduate school, teaching in K-12, educational administration including counseling psychology, social services positions, business, educational, and community organizing, the minor is appropriate for all major fields of study given the discipline’s interdisciplinary foundation. Chicanos and Latinos are now the largest racial ethnic group in the nation, and the Chicana/Chicano Studies minor will provide all students with an appreciation of the history, political, social, and cultural realities of Chicanos and Latinos in contemporary American society.

Please refer to the required courses and course descriptions section for additional information about CEP’s Chicana/Chicano Studies curriculum.

Other CEP Activities

CEP is committed to networking and establishing contacts with all communities throughout the state of Washington with a particular focus on educational related issues, initiatives, and policies. CEP’s outreach efforts include public seminars, lectures and cultural art exhibitions. The program also publishes and disseminates throughout the US an electronic quarterly newsletter, Q-VO, which informs students and the community about CEP activities. On a national level, CEP actively participates with the National Association for Chicana and Chicano Studies, a professional academic association, which promotes research and teaching relevant to the Chicana/Chicano community.

Chicana-Chicano Studies Minor

The minor in Chicano and Latino Studies will provide all students regardless of ethnicity with a comprehensive and interdisciplinary understanding of Chicano and Latino communities through its Chicana/Chicano Studies Minor program. This program is designed to build a solid foundation of Chicano and Latino culture and history, and to prepare students for further study at the graduate level.

Required courses in the following program of study may have prerequisites. Reference the course description section for clarification.
Chicano Studies course offerings. For example, lower division courses such as Introduction to Chicana/Chicano Culture, Latinas/Latinos in Contemporary American Society and Chicana/Chicano History encourage students to develop valid concepts and generalizations regarding Chicano and Latino life conditions in the U.S. Upper division courses expand on aspects of Chicano and Latino experiences. Students are expected to understand how the intersectionality of class, race, gender and sexuality shape and/or influence Chicano/Latino communities. These courses include Chicano/Latino Politics in America, Survey of Chicana/Chicano Literature, Latina/Latino Communities in the United States, and Field Research in Chicano and Latino Studies. The minor will enhance the academic preparation of students planning to pursue graduate studies, professional school, teaching from elementary to post-secondary levels, as educational counselors and administrators, social service agents, and occupations in the non-profit sector.

This minor does not meet a state of Washington endorsement.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 101</td>
<td>INTRODUCTION TO CHICANO CULTURE</td>
<td>5</td>
</tr>
<tr>
<td>or CHST 201</td>
<td>LATINAS/OS IN CONTEMPORARY AMERICAN SOCIETY</td>
<td>5</td>
</tr>
<tr>
<td>CHST 218</td>
<td>CHICANO HISTORY</td>
<td>5</td>
</tr>
<tr>
<td>CHST 300</td>
<td>SURVEY OF CHICANO LITERATURE</td>
<td>5</td>
</tr>
<tr>
<td>CHST 320</td>
<td>CHICANO-LATINO POLITICS IN AMERICA</td>
<td>5</td>
</tr>
<tr>
<td>or CHST 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 25

**Student Learning Outcomes—students will**

- effectively demonstrate competence in oral, written and/or visual media in presenting research findings;
- demonstrate competence with analyzing contemporary and global issues and how they affect the Chicana/o experience;
- demonstrate an understanding of Chicana/o peoples’ diversity as it pertains to race/ethnicity, gender, sexuality, class, immigrant status, age, region and educational background;
- demonstrate and articulate how Chicano Studies’ training and experience can be applied to various job opportunities;
- demonstrate and articulate an understanding of Chicana and Chicano Studies as an interdisciplinary field of inquiry
- exercise critical, interdisciplinary thinking in order to adequately problem-solve;
- demonstrate an understanding of the role that activism and struggle have and continue to play in building a Chicana/o consciousness and ideologies of empowerment and transformative social change.
Children's Studies

Deanna Trella, Program Director (dtrella@ewu.edu)
141 Senior Hall
509.359.4828

Maria Howes, Program Coordinator (mhowes2@ewu.edu)
department page (https://www.ewu.edu/css/programs/childrens-studies)
122 Senior Hall
509.359.4826

Undergraduate Degrees

Bachelor of Arts (BA)
- Children's Studies - Research in Children's Studies Option (p. 299)
- Children's Studies - Programming in Children's Studies Option (p. 298)
- Children's Studies - Early Childhood through Children's Studies Option (p. 298)

Undergraduate Programs

The Interdisciplinary Children’s Studies majors provide students a strong holistic background in the study of children (birth to adolescence) in a variety of social contexts. Theory and practice from the disciplines of Sociology, Psychology and Education form the basis for this integrated curriculum. The BA Options A, B and C provide an opportunity for all students to develop a foundational and global perspective of children and childhood. Included in the program requirements is the course SOCI 101, which must be taken as a prerequisite to the sociology courses found within the Children’s Studies Major. This course may be used to fulfill the requirements for one General Education Course Requirement (GECR) but may not be counted twice toward the 180 credits required to graduate. In addition, EDUC 325, which makes up part of the Children's Studies core, may be used to fulfill the requirement for the Culture and Gender Diversity requirement.

Children’s Studies Major with Early Childhood through Children’s Studies Option, Bachelor of Arts (BA)

The Early Childhood through Children’s Studies option allows students to earn a Bachelor of Arts degree in Children's Studies with a focus on the development, learning and environments of young children.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDST 301</td>
<td>INTRODUCTION TO CHILDREN'S STUDIES</td>
<td>2</td>
</tr>
<tr>
<td>or EDUC 306</td>
<td>INTRODUCTION TO EARLY CHILDHOOD EDUCATION</td>
<td></td>
</tr>
<tr>
<td>CDST 492</td>
<td>CHILDREN'S STUDIES SENIOR PORTFOLIO</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 325</td>
<td>INEQUALITIES AND IMPACTS ON EDUCATIONAL EQUITY</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>THE GEOGRAPHY OF CHILDHOOD</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>CHILD AND ADOLESCENT DEVELOPMENT</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
<td>5</td>
</tr>
</tbody>
</table>

SOCI 370  SOCIETY OF THE FAMILY  5
SOCI 483  SOCIETY OF CHILDREN  5

Core Electives—choose one from the following  4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDST 402</td>
<td>CHILDREN'S RIGHTS</td>
<td></td>
</tr>
<tr>
<td>CDST 411</td>
<td>CHILD LIFE THEORY</td>
<td></td>
</tr>
<tr>
<td>CDST 412</td>
<td>HEALTH AND CHILDREN</td>
<td></td>
</tr>
<tr>
<td>CDST 413</td>
<td>MEDIA AND CHILDREN</td>
<td></td>
</tr>
<tr>
<td>CDST 421</td>
<td>PLAY AND PLAYWORK</td>
<td></td>
</tr>
<tr>
<td>CDST 422</td>
<td>CHILDREN'S LOSS AND GRIEF</td>
<td></td>
</tr>
<tr>
<td>CDST 439</td>
<td>TOPICS IN CHILDREN'S STUDIES</td>
<td></td>
</tr>
</tbody>
</table>

Practicum/Internship/Seminar Courses—choose one from the following  3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CDST 495</td>
<td>CHILDREN'S STUDIES INTERNSHIP</td>
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</tr>
<tr>
<td>EDUC 457</td>
<td>COLLABORATIVE REFLECTIVE TEACHING IN EARLY CHILDHOOD EDUCATION</td>
<td></td>
</tr>
<tr>
<td>PSYC 495</td>
<td>INTERNSHIP</td>
<td></td>
</tr>
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</table>

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDST 490</td>
<td>SENIOR CAPSTONE (an approved department Senior Capstone course)</td>
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Option C Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 455</td>
<td>PERSPECTIVES OF EARLY CHILDHOOD EDUCATION</td>
<td>3</td>
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<tr>
<td>EDUC 456</td>
<td>INTEGRATED EARLY CHILDHOOD PRACTICES</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 458</td>
<td>LEARNING PARADIGM IN EARLY CHILDHOOD EDUCATION</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 479</td>
<td>EARLY LITERACY</td>
<td>3</td>
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<tr>
<td>EDUC 480</td>
<td>EDUCATING YOUNG CHILDREN WITH DIVERSE BACKGROUNDS</td>
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</tr>
</tbody>
</table>

Total Credits  60-62

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate knowledge in addressing children's lives and experiences from a variety of disciplines;
- demonstrate an understanding of children’s diversity;
- critically evaluate a variety of approaches in working with children and reflect on their own practices and interactions with children;
- design curricula that addresses children’s individuality in different types of interactions and contexts;
- demonstrate effective practices in working with children and child service organizations, which include knowledge of content area, problem solving, use of technology, opportunity for choice, motivation, collaboration, and respect for diversity;
- communicate effectively with all constituencies, including children, parents, colleagues, and community members; and demonstrate professional leadership in the field.

Children’s Studies Major with Programming in Children’s Studies Option, Bachelor of Arts (BA)

The Programming in Children’s Studies option allows students to develop an enhanced and broadened perspective about children so they can have
the flexibility to work with children in social service agencies and other child focused programs.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDST 301</td>
<td>INTRODUCTION TO CHILDREN’S STUDIES</td>
<td>2</td>
</tr>
<tr>
<td>or EDUC 306</td>
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<td></td>
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<tr>
<td>CDST 492</td>
<td>CHILDREN’S STUDIES SENIOR PORTFOLIO</td>
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<td>PSYC 305</td>
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<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
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<td>SOCI 370</td>
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</tr>
<tr>
<td>SOCI 483</td>
<td>SOCIOLOGY OF CHILDREN</td>
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Core Electives—choose one from the following 4-5

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CDST 402</td>
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Practicum/Internship/Seminar Courses 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CDST 495</td>
<td>CHILDREN’S STUDIES INTERNSHIP</td>
</tr>
<tr>
<td>EDUC 457</td>
<td>COLLABORATIVE REFLECTIVE TEACHING IN EARLY CHILDHOOD EDUCATION</td>
</tr>
<tr>
<td>PSYC 495</td>
<td>INTERNSHIP</td>
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</table>

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDST 490</td>
<td>SENIOR CAPSSTONE</td>
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Student Learning Outcomes—students will

- demonstrate knowledge in addressing children’s lives and experiences from a variety of disciplines;
- demonstrate an understanding of children’s diversity;
- critically evaluate a variety of approaches in working with children and reflect on their own practices and interactions with children;
- design curricula that addresses children’s individuality in different types of interactions and contexts;
- demonstrate effective practices in working with children and child service organizations, which include knowledge of content area, problem solving, use of technology, opportunity for choice, motivation, collaboration, and respect for diversity;
- communicate effectively with all constituencies, including children, parents, colleagues, and community members; and demonstrate professional leadership in the field.

Children’s Studies Major with Research in Children’s Studies Option, Bachelor of Arts (BA)

The Research in Children’s Studies option is designed for those undergraduate students who plan to do graduate work or who wish to work in agencies or organizations that need data collection and assessment.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>or EDUC 306</td>
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<td></td>
</tr>
<tr>
<td>CDST 492</td>
<td>CHILDREN’S STUDIES SENIOR PORTFOLIO</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 325</td>
<td>INEQUALITIES AND IMPACTS ON EDUCATIONAL EQUITY</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>THE GEOGRAPHY OF CHILDHOOD</td>
<td>3</td>
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<tr>
<td>PSYC 305</td>
<td>CHILD AND ADOLESCENT DEVELOPMENT</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 370</td>
<td>SOCIOLOGY OF THE FAMILY</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 483</td>
<td>SOCIOLOGY OF CHILDREN</td>
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Core Electives 4-5

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CDST 402</td>
<td>CHILDREN’S RIGHTS</td>
</tr>
<tr>
<td>CDST 411</td>
<td>CHILD LIFE THEORY</td>
</tr>
<tr>
<td>CDST 412</td>
<td>HEALTH AND CHILDREN</td>
</tr>
<tr>
<td>CDST 413</td>
<td>MEDIA AND CHILDREN</td>
</tr>
<tr>
<td>CDST 421</td>
<td>PLAY AND PLAYWORK</td>
</tr>
<tr>
<td>CDST 422</td>
<td>CHILDREN’S LOSS AND GRIEF</td>
</tr>
<tr>
<td>CDST 439</td>
<td>TOPICS IN CHILDREN’S STUDIES</td>
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Practicum/Internship/Seminar Courses—choose one of the following 3-4

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CDST 495</td>
<td>CHILDREN’S STUDIES INTERNSHIP</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>EDUC 457</td>
<td>COLLABORATIVE REFLECTIVE TEACHING IN EARLY</td>
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<tr>
<td></td>
<td>CHILDHOOD EDUCATION</td>
</tr>
<tr>
<td>PSYC 495</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Capstone</td>
<td></td>
</tr>
<tr>
<td>CDST 490</td>
<td>SENIOR CAPSTONE (an approved department</td>
</tr>
<tr>
<td></td>
<td>Senior Capstone course.)</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Option A Required Courses</td>
<td></td>
</tr>
<tr>
<td>Theory</td>
<td></td>
</tr>
<tr>
<td>PSYC 315</td>
<td>PSYCHOLOGY OF HUMAN RELATIONS and</td>
</tr>
<tr>
<td>&amp; PSYC 320</td>
<td>DEVELOPMENTAL THEORIES AND APPLICATIONS</td>
</tr>
<tr>
<td>or CSBS 310</td>
<td>FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES</td>
</tr>
<tr>
<td></td>
<td>THEORY</td>
</tr>
<tr>
<td>Statistics</td>
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<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
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<tr>
<td>Research Methods</td>
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<tr>
<td>CDST 330</td>
<td>RESEARCH METHODS FOR STUDYING CHILDREN AND</td>
</tr>
<tr>
<td></td>
<td>CHILDHOOD</td>
</tr>
<tr>
<td>PSYC 309</td>
<td>SCIENTIFIC PRINCIPLES OF PSYCHOLOGY</td>
</tr>
<tr>
<td>PSYC 313</td>
<td>RESEARCH METHODS IN PSYCHOLOGY</td>
</tr>
<tr>
<td>Option A Elective – choice of elective must be</td>
<td>1-5</td>
</tr>
<tr>
<td>approved by major advisor.</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 60-65

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate knowledge in addressing children's lives and experiences from a variety of disciplines;
- demonstrate an understanding of children's diversity;
- critically evaluate a variety of approaches in working with children and reflect on their own practices and interactions with children;
- design curricula that addresses children's individuality in different types of interactions and contexts;
- demonstrate effective practices in working with children and child service organizations, which include knowledge of content area, problem solving, use of technology, opportunity for choice, motivation, collaboration, and respect for diversity;
- communicate effectively with all constituencies, including children, parents, colleagues, and community members; and demonstrate professional leadership in the field.
Communication Studies

Jeff Stafford, Chair
department page (https://www.ewu.edu/css/programs/communication-studies)
117 Communications Bldg.
509.359.2313

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
- Communication Studies (p. 305)
- Communication in Public Relations Option (p. 306)

Undergraduate Minors
- Communication Studies (p. 306)

Undergraduate Certificates
- Leadership (p. 306)

Undergraduate Programs
CMST faculty designed this degree to offer you an exciting and fulfilling educational experience while simultaneously preparing you for a changing world.

The Bachelor of Arts Communication Studies offers you two options:
1. Communication Studies and

Each option provides you with an introduction to concepts in communication and the social sciences. These degrees are similar with the exception of the elective component. The Public Relations option requires 66 credits for completion and has no required minor. The general Communication Studies option requires 59 credits for completion and requires a minor.

For the BA Communication Studies, you begin with two general introductory courses, CMST 207 and CMST 208. These are followed by CMST 309. Another required class is CSBS 310 which introduces general social science concepts and methods.

As you progress in your education, you will choose one course from each of the emphasis areas of communication: Rhetorical and Cultural Studies, Organizational and Leadership Studies and Language and Social Interaction Studies. In addition, if you choose the Communication Studies option (#1 below), you will choose a minimum of 14 elective credits. If you choose the Communication Studies in Public Relations option (#2 below), instead of electives you will take JRNM 332, JRNM 451, JRNM 452 and JRNM 453 and either DESN 360 or DESN 368. Either BA option in Communication Studies culminates in a senior capstone course which allows you to synthesize your knowledge and skills.

All students are welcome to apply for a major in Communication Studies.

Requirements for graduation from Communication Studies are:
1. two years of one foreign language at the high school level or one year of one foreign language at the college level;
2. a minimum cumulative GPA ≥2.0 by graduation.

- For transfer students, the Department of Communication Studies accepts up to 25 transfer credits, from comparable courses, toward our BA.
- Students are advised that the university GER requirements for Gender and Cultural Diversity and International Studies require additional courses that are not required in the degree.
- CMST 200 cannot be taken for credit toward the majors.
- The program has two degree options in the BA: Communication Studies and Communication Studies in Public Relations.

Graduate Degrees
Master of Science (MS)
- Communication Studies with Organizational Communication Focus (p. 304)
- Communication Studies with Technological Communication Focus (p. 304)
- Communication Studies with Instructional Communication Focus (p. 303)
- Communication Studies with Cultural Communication Focus (p. 302)

Graduate Program
Galina Sinekopova, Director
229 Communications Bld.
509.359.2865

The Department of Communication Studies administers the Master of Science in Communications and cooperates in the Master of Arts in College Instruction and in individualized interdisciplinary programs. Students interested in post-secondary teaching should refer to the College Instruction section in this catalog. The MS in Communications program is also described below. Proposed individualized interdisciplinary programs should be developed in consultation with a Communication Studies graduate advisor 509.359.4947.

The Master of Science in Communications Program is an interdisciplinary professional program. It addresses the growing need for theory-grounded communication professionals in business, government and the non-profit sector, including: public relations practitioners, advertising writers, educators, graphic designers, consultants, training and development professionals, media policy experts, print and electronic journalists—and indeed anyone who must know how to create, manage and assess communication initiatives in a global environment. The MSC program offers students a strong foundation in communication theory and methodology and encourages application in such emphasis areas as organizational, technological, instructional and cultural communication.
The program is designed for career-oriented individuals who want to advance in their chosen fields or to move from their undergraduate programs to the competitive job markets. The MSC program’s rigorous coverage of communication theory and methodology also provides a strong foundation for those intending to pursue doctoral studies.

Applicants are admitted to the program throughout the academic year. In addition to the general university requirements for admission to graduate studies, applicants must submit the following directly to the MSC office: a written essay of no more than 1000 words describing their background and goals and how the program will help actualize those goals; résumé; at least two letters of recommendation. The MSC Director’s recommendation for admission, based on an interview with the applicant, is required. Applicants must submit a gre general score; the verbal section score will be given special consideration. If an undergraduate statistics course is not taken before admission to the program, it must be taken prior to taking the research methods sequence. Based on their credentials and entrance requirements, applicants may be asked to take some classes in addition to the courses in the program in order to correct deficiencies. At least one year’s successful professional experience will enhance application.

Interdisciplinary Component
Students will choose a minimum of two courses from at least two of the following four emphasis areas--organizational, technological, instructional and cultural communication. One of these two courses must be the required course in the emphasis area. Suggested course offerings for each emphasis area are given below. Deviations from the suggested offerings must be petitioned in writing to and approved by, the graduate faculty advisor and the MSC Director.

Courses leading to the MS degree in communications are offered by the following programs:

- Business Administration
- College Instruction
- Communication Studies
- Computer Science
- Psychology
- Education
- Visual Communication
- Design Journalism
- Public Administration
- Rhetoric and Technical Communication

Introductory Course
CMST 568  INTRODUCTION TO GRADUATE STUDIES  2

Theory Courses
CMST 501  ADVANCED COMMUNICATION THEORY  5
CMST 502  CONTEMPORARY TRENDS IN COMMUNICATION STUDIES  5

Methodology Courses
CMST 520  COMMUNICATION INQUIRY  5
CMST 521  RESEARCH DESIGN AND ANALYSIS I  5
CMST 522  RESEARCH DESIGN AND ANALYSIS II  5

Technology Course
TECH 504  COMMUNICATION TECHNOLOGIES  4
or CMST 504  COMMUNICATION SYSTEMS

Required
CMST 570  COMMUNICATION AND CULTURAL STUDIES  5

Electives  21-22

CMST 314  GENDER AND COMMUNICATION
CMST 411  NEGOTIATION SKILLS AND STRATEGIES
CMST 440  GLOBAL COMMUNICATION
CMST 539  SPECIAL TOPICS
CMST 550  PROBLEMS IN CONTEMPORARY PUBLIC COMMUNICATION
CMST 569  THESIS PREPARATION
CMST 598  SEMINAR
ENGL 555  CONTEMP COMPOSITION THEORY
ENGL 568  TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY
ENGL 573  HISTORY OF RHETORIC
ENGL 575  CONTEMPORARY RHETORICAL THEORIES
SOWK 555  CONFLICT MANAGEMENT
WMST 410  FEMINIST THEORY

Chose one of the following options:

Option A  2-6
The thesis or research project will be selected in consultation with the student's faculty advisor. Each student shall complete an oral examination, which will focus primarily on the master's thesis or project but which may also include questions to demonstrate competence in all areas included in the program of that student. Students will provide copies of their master's thesis or project to the oral examination committee at least two weeks in advance of the scheduled oral examination. The oral examination committee will consist of at least two graduate faculty members representing the interdisciplinary content of the student's program and a third member designated by the Graduate Office. Students who select Option A are strongly encouraged to take CMST 569 Thesis Preparation.
Option B

The written examination is designed to test students’ competence across the breadth of their program. Over the course of 4.5 hours, the student will address questions on theory (1.75 hours), methodology and method (1.75 hours) and one emphasis (1 hour). The student will approach prospective committee members to ensure they are willing to provide examination questions. The MSC Director will provide copies of the student’s written answers to the examination committee at least two weeks in advance of the scheduled oral examination. The written and oral examination committee will consist of four graduate faculty members: two from Communication Studies, one of whom will chair the committee; one from a unit other than Communication Studies that contributes to the MSC; and a faculty member designated by the Graduate Office.

Student Learning Outcomes—students will

- deploy various written, oral and electronic media in creating and presenting original work;
- analyze various cultural products through the application of contemporary theories and methods.

Communication Studies with Instructional Communication Focus, Master of Science (MS)

Focus: role of communication as developmental phenomenon in any learning environment.

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 568</td>
<td>INTRODUCTION TO GRADUATE STUDIES</td>
<td>2</td>
</tr>
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Theory Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CMST 501</td>
<td>ADVANCED COMMUNICATION THEORY</td>
<td>5</td>
</tr>
<tr>
<td>CMST 502</td>
<td>CONTEMPORARY TRENDS IN COMMUNICATION STUDIES</td>
<td>5</td>
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Methodology Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 520</td>
<td>COMMUNICATION INQUIRY</td>
<td>5</td>
</tr>
<tr>
<td>CMST 521</td>
<td>RESEARCH DESIGN AND ANALYSIS I</td>
<td>5</td>
</tr>
<tr>
<td>CMST 522</td>
<td>RESEARCH DESIGN AND ANALYSIS II</td>
<td>5</td>
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Technology Course

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TECH 504</td>
<td>COMMUNICATION TECHNOLOGIES</td>
<td>4</td>
</tr>
<tr>
<td>or CMST 504</td>
<td>COMMUNICATION SYSTEMS</td>
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Required

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<th>Credits</th>
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<tr>
<td>CMST 578</td>
<td>SEMINAR IN CONSULTING PROCESSES</td>
<td>2-4</td>
</tr>
<tr>
<td>or PSYC 507</td>
<td>HUMAN DEVELOPMENT: RESEARCH, THEORIES AND APPLICATIONS</td>
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Electives

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<tr>
<td>CMST 539</td>
<td>SPECIAL TOPICS</td>
<td>24-25</td>
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<tr>
<td>CMST 550</td>
<td>PROBLEMS IN CONTEMPORARY PUBLIC COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 569</td>
<td>THESIS PREPARATION</td>
<td></td>
</tr>
<tr>
<td>CMST 598</td>
<td>SEMINAR</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits | 63 |

Chose one of the following options:

Option A

The thesis or research project will be selected in consultation with the student’s faculty advisor. Each student shall complete an oral examination, which will focus primarily on the master’s thesis or project but which may also include questions to demonstrate competence in all areas included in the program of that student. Students will provide copies of their master’s thesis or project to the oral examination committee at least two weeks in advance of the scheduled oral examination. The oral examination committee will consist of at least two graduate faculty members representing the interdisciplinary content of the student’s program and a third member designated by the Graduate Office. Students who select Option A are strongly encouraged to take CMST 569 Thesis Preparation.

Option B

The written examination is designed to test students’ competence across the breadth of their program. Over the course of 4.5 hours, the student will address questions on theory (1.75 hours), methodology and method (1.75 hours) and one emphasis (1 hour). The student will approach prospective committee members to ensure they are willing to provide examination questions. The MSC Director will provide copies of the student’s written answers to the examination committee at least two weeks in advance of the scheduled oral examination. The written and oral examination committee will consist of four graduate faculty members: two from Communication Studies, one of whom will chair the committee; one from a unit other than Communication Studies that contributes to the MSC; and a faculty member designated by the Graduate Office. For options A and B, the final oral examination will be open to interested faculty and students and may be open to questions from non-committee members at the discretion of the committee. The final oral examination for option A will be no longer than 2 hours. The final oral examination for option B will be no longer than 1.5 hours. With respect to option A, the oral examination will not be held over vacation periods or during summer quarter except by advance approval of all committee members. The same holds true for the written and oral examinations in option B.

Student Learning Outcomes—students will

- deploy various written, oral and electronic media in creating and presenting original work;
• analyze various cultural products through the application of contemporary communications theories and methods.

**Communication Studies with Organizational Communication Focus, Master of Science (MS)**

Focus: role of communication within and between complex organizational systems and their strategic publics.

**Core Courses**
- **Introductory Course**
  - CMST 568 INTRODUCTION TO GRADUATE STUDIES 2
- **Theory Courses**
  - CMST 501 ADVANCED COMMUNICATION THEORY 5
  - CMST 502 CONTEMPORARY TRENDS IN COMMUNICATION STUDIES 5
- **Methodology Courses**
  - CMST 520 COMMUNICATION INQUIRY 5
  - CMST 521 RESEARCH DESIGN AND ANALYSIS I 5
  - CMST 522 RESEARCH DESIGN AND ANALYSIS II 5
- **Technology Course**
  - TECH 504 COMMUNICATION TECHNOLOGIES 4
  - or CMST 504 COMMUNICATION SYSTEMS

**Required**
- CMST 530 COMMUNICATION IN ORGANIZATIONS 5

**Electives** 21-22
- BADM 541 MANAGERIAL COMMUNICATIONS
- CMST 438 TOPICS IN LEADERSHIP AND STRATEGIC COMMUNICATION
- CMST 539 SPECIAL TOPICS
- CMST 550 PROBLEMS IN CONTEMPORARY PUBLIC COMMUNICATION
- CMST 569 THESIS PREPARATION
- CMST 578 SEMINAR IN CONSULTING PROCESSES
- CMST 598 SEMINAR
- ENGL 568 TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY
- JRNM 451 PUBLIC RELATIONS WRITING
- JRNM 452 INTRODUCTION TO PUBLIC RELATIONS THEORY
- JRNM 453 ADVANCED PUBLIC RELATIONS THEORY
- JRNM 498 SEMINAR
- PADM 503 CONCEPTS AND VALUES PUBLIC SERVICE
- PADM 511 PUBLIC SECTOR ORGANIZATION THEORY AND DYNAMICS
- PADM 517 PROFESSIONAL EMPLOYMENT
- PADM 525 PUBLIC SECTOR GRANTS-WRITING AND ADMINISTRATION
- PADM 571 ENTREPRENEURSHIP: JOURNEY OR DESTINATION
- PSYC 507 HUMAN DEVELOPMENT: RESEARCH, THEORIES AND APPLICATIONS
- PSYC 544 COUNSELING THEORY AND TECHNIQUES
- PSYC 545 APPRAISAL IN MENTAL HEALTH COUNSELING

Choose one of the following options:

**Option A**
2-6
The thesis or research project will be selected in consultation with the student’s faculty advisor. Each student shall complete an oral examination, which will focus primarily on the master’s thesis or project but which may also include questions to demonstrate competence in all areas included in the program of that student. Students will provide copies of their master’s thesis or project to the oral examination committee at least two weeks in advance of the scheduled oral examination. The oral examination committee will consist of at least two graduate faculty members representing the interdisciplinary content of the student’s program and a third member designated by the Graduate Office. Students who select Option A are strongly encouraged to take CMST 569 Thesis Preparation.

**Option B**
2-5
The written examination is designed to test students’ competence across the breadth of their program. Over the course of 4.5 hours, the student will address questions on theory (1.75 hours), methodology and method (1.75 hours) and one emphasis (1 hour). The student will approach prospective committee members to ensure they are willing to provide examination questions. The MSC Director will provide copies of the student’s written answers to the examination committee at least two weeks in advance of the scheduled oral examination. The written and oral examination committee will consist of four graduate faculty members: two from Communication Studies, one of whom will chair the committee; one from a unit other than Communication Studies that contributes to the MSC; and a faculty member designated by the Graduate Office. For options A and B, the final oral examination will be open to interested faculty and students and may be open to questions from non-committee members at the discretion of the committee. The final oral examination for option A will be no longer than 2 hours. The final oral examination for option B will be no longer than 1.5 hours. With respect to option A, the oral examination will not be held over vacation periods or during summer quarter except by advance approval of all committee members. The same holds true for the written and oral examinations in option B.

**Total Credits** 63

**Student Learning Outcomes—students will**
- deploy various written, oral and electronic media in creating and presenting original work;
- analyze various cultural products through the application of contemporary communications theories and methods.

**Communication Studies with Technological Communication Focus, Master of Science (MS)**

Focus: role of established and emerging forms of electronically-mediated communication in local, national and global settings.

**Core Courses**
- **Introductory Course**
  - CMST 568 INTRODUCTION TO GRADUATE STUDIES 2
- **Theory Courses**
  - CMST 501 ADVANCED COMMUNICATION THEORY 5
CMST 502  CONTEMPORARY TRENDS IN COMMUNICATION STUDIES  5

Methodology Courses
CMST 520  COMMUNICATION INQUIRY  5
CMST 521  RESEARCH DESIGN AND ANALYSIS I  5
CMST 522  RESEARCH DESIGN AND ANALYSIS II  5

Technology Course
TECH 504  COMMUNICATION TECHNOLOGIES  4
or CMST 504  COMMUNICATION SYSTEMS

Required
TECH 504  COMMUNICATION TECHNOLOGIES  4
or CMST 504  COMMUNICATION SYSTEMS

Electives  22-23
CMST 539  SPECIAL TOPICS
CMST 569  THESIS PREPARATION
CMST 598  SEMINAR
CSCD 439  TOPICS IN COMPUTER SCIENCE
& CSCD 539  and TOPICS IN COMPUTER SCIENCE
CSCD 539  TOPICS IN COMPUTER SCIENCE
DESN 463  VISUAL COMMUNICATION DESIGN 3
ENGL 503  INFORMATION DESIGN
ENGL 504  INSTRUCTIONS AND PROCEDURES
TECH 550  COMPUTER GRAPHICS
TECH 599  INDEPENDENT STUDY

Choose one of the following options:

Option A  2-6
The thesis or research project will be selected in consultation with the student’s faculty advisor. Each student shall complete an oral examination, which will focus primarily on the master’s thesis or project but which may also include questions to demonstrate competence in all areas included in the program of that student. Students will provide copies of their master’s thesis or project to the oral examination committee at least two weeks in advance of the scheduled oral examination. The oral examination committee will consist of at least two graduate faculty members: two from Communication Studies, one of whom will chair the committee; one from a unit other than Communication Studies that contributes to the MSC; and a faculty member designated by the Graduate Office. For options A and B, the final oral examination will be open to interested faculty and students and may be open to questions from non-committee members at the discretion of the committee. The final oral examination for option A will be no longer than 2 hours. The final oral examination for option B will be no longer than 1.5 hours. With respect to option A, the oral examination will not be held over vacation periods or during summer quarter except by advance approval of all committee members. The same holds true for the written and oral examinations in option B.

Option B  2-5
The written examination is designed to test students’ competence across the breadth of their program. Over the course of 4.5 hours, the student will address questions on theory (1.75 hours), methodology and method (1.75 hours) and one emphasis (1 hour). The student will approach prospective committee members to ensure they are willing to provide examination questions. The MSC Director will provide copies of the student’s written answers to the examination committee at least two weeks in advance of the scheduled oral examination. The written and oral examination committee will consist of four graduate faculty members: two from Communication Studies, one of whom will chair the committee; one from a unit other than Communication Studies that contributes to the MSC; and a faculty member designated by the Graduate Office. For options A and B, the final oral examination will be open to interested faculty and students and may be open to questions from non-committee members at the discretion of the committee. The final oral examination for option A will be no longer than 2 hours. The final oral examination for option B will be no longer than 1.5 hours. With respect to option A, the oral examination will not be held over vacation periods or during summer quarter except by advance approval of all committee members. The same holds true for the written and oral examinations in option B.

Total Credits  63

Student Learning Outcomes—students will
• deploy various written, oral and electronic media in creating and presenting original work;
• analyze various cultural products through the application of contemporary communications theories and methods.

Communication Studies, Bachelor of Arts (BA)

Note: A minor is required for this degree. After your required and minor courses are completed, you may need additional hours to meet the university requirement of 180 hours. You should choose these courses with your needs in mind from either the communication studies offerings or other university offerings. Generally these courses should be 300- and 400-level courses.

Section A—Required Foundation Credits
CMST 201  PUBLIC SPEAKING  5
CMST 208  MASS MEDIA AND THE INFORMATION SOCIETY  5
CMST 309  COMMUNICATION AND INFORMATION  5
CMST 330  INTEGRATED METHODS FOR COMMUNICATION RESEARCH
or CSBS 320  INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES
CMST 490  SENIOR CAPSTONE  5
CSBS 310  FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY  5

Section B—Required Upper Division Core Credits—choose at least three 400-level CMST classes. Any course in Section B cannot count in Section C. The following classes cannot count in this section: CMST 480, CMST 481, CMST 495, CMST 499 or CMST 490.

Section C—Electives—choose credits from any CMST or from the JRNM Public Relations sequence, JRNM 451, JRNM 452 and JRNM 453 or CSBS 320 if not taken to satisfy foundation credit.
Section D—The STAR Component (STudy/Act/Reflect)—This requirement can be satisfied by submitting a brief essay, approximately 900 words, exhibiting cognitive reflection between communication concepts or theory and everyday activities such as internships, service-learning activities, employment, volunteer activities, etc.

Note: CMST 200 cannot be taken for credit towards the Communication Studies Major.

Total Credits 59

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate an understanding of communications combined with skills in using contemporary technologies;
• present material in written, oral and multi-media formats;
• participate in community activities such as debate, internships or others that demonstrate applications of communications study and training;
• analyze the relationship between politics, economics, experience and communications media in international settings and will understand intercultural bases for communications;
• understand major theoretical positions and implications central to the discipline, additionally, students will demonstrate competencies in at least two research methodologies.

Communication Studies Minor

Choose courses totaling at least 19 credits from CMST with at least one 5 credit course from the 400 level, excluding CMST 499.

Total Credits 19

Communication in Public Relations Option, Bachelor of Arts (BA)

Students seeking a degree in Communication in Public Relations Option must complete the Foundation and Core Area requirements for the BA in Communications Studies, plus the Public Relations Core requirements.

Required Foundation Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 201</td>
<td>PUBLIC SPEAKING</td>
<td>5</td>
</tr>
<tr>
<td>CMST 208</td>
<td>MASS MEDIA AND THE INFORMATION SOCIETY</td>
<td>5</td>
</tr>
<tr>
<td>CMST 309</td>
<td>COMMUNICATION AND INFORMATION</td>
<td>5</td>
</tr>
<tr>
<td>CMST 330</td>
<td>INTEGRATED METHODS FOR COMMUNICATION RESEARCH</td>
<td>5</td>
</tr>
<tr>
<td>or CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td></td>
</tr>
<tr>
<td>CMST 490</td>
<td>SENIOR CAPSTONE</td>
<td>5</td>
</tr>
<tr>
<td>CSBS 310</td>
<td>FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY</td>
<td>5</td>
</tr>
</tbody>
</table>

Required Upper Division Core Credits—choose at least three 400-level CMST classes. Note: The following classes cannot count in this section: CMST 480, CMST 481 or CMST 495, CMST 499) or CMST 490. Any course used in Section B cannot count in Section C.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNM 332</td>
<td>NEWS WRITING</td>
<td>5</td>
</tr>
<tr>
<td>JRNM 451</td>
<td>PUBLIC RELATIONS WRITING</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 452</td>
<td>INTRODUCTION TO PUBLIC RELATIONS THEORY</td>
<td>4</td>
</tr>
<tr>
<td>JRNM 453</td>
<td>ADVANCED PUBLIC RELATIONS THEORY</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective—choose one of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESN 360</td>
<td>PUBLICATION DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>DESN 368</td>
<td>WEB DESIGN 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: CMST 200 cannot be taken for credit towards the Communication Studies Majors.

Total Credits 66

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• demonstrate an understanding of communications combined with skills in using contemporary technologies;
• present material in written, oral and multi-media formats;
• participate in community activities such as debate, internships or others that demonstrate applications of communications study and training;
• analyze the relationship between politics, economics, experience and communications media in international settings and will understand intercultural bases for communications;
• understand major theoretical positions and implications central to the discipline. Additionally, students will demonstrate competencies in at least two research methodologies.

Leadership Certificate

The purpose of the Leadership Certificate is to educate and empower students to become proactive leaders in our society regardless of chosen profession. The Certificate provides an interdisciplinary course of study with a focus on the theoretical and experiential understanding of leadership. Students will benefit from a broad spectrum of classes that entail a leadership component. Collectively, these courses will provide a rich compilation of perspectives on leadership. Students will also benefit from the thorough examination and critique of their evolving leadership style.

Grade Requirements

Acceptance to the certificate program requires that students have at least a 2.5 cumulative grade point average. Students must maintain a cumulative grade point average in the certificate ≥2.7 with no single course grade <2.5.

Note: some courses on Lists 1 and 2 have prerequisites that are not included in the Leadership Certificate program. Please review the Graduate and Undergraduate Catalog for prerequisite information.

Prerequisites: students must complete the following courses before admission to the certificate program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>COLLEGE COMPOSITION: EXPOSITION AND ARGUMENTATION (or equivalent)</td>
</tr>
<tr>
<td>One GECR course from Humanities and Fine Arts:</td>
<td></td>
</tr>
<tr>
<td>PHIL 213</td>
<td>MORAL ISSUES IN AMERICA (recommended)</td>
</tr>
<tr>
<td>One GECR course from Social Sciences:</td>
<td></td>
</tr>
<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY (recommended)</td>
</tr>
</tbody>
</table>

Required Courses

Basic leadership—select from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 200</td>
<td>INTRODUCTION TO LEADERSHIP</td>
</tr>
</tbody>
</table>

Basic leadership—select from the following
Any course (2 credits minimum) that focuses on leadership skills (e.g., residential life leadership classes or student government leadership workshops). The certificate advisor will determine whether the course in question qualifies as a leadership basics course.

### Theory and Philosophy - select from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSC 203</td>
<td>BASIC MILITARY TEAM III</td>
<td></td>
</tr>
</tbody>
</table>

**4-5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 438</td>
<td>TOPICS IN LEADERSHIP AND STRATEGIC COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>ITGS 400</td>
<td>INTERDISCIPLINARY SR CAPSTONE (Journeys in Leadership)</td>
<td></td>
</tr>
<tr>
<td>ITGS 400</td>
<td>INTERDISCIPLINARY SR CAPSTONE (Creating Change)</td>
<td></td>
</tr>
</tbody>
</table>

**Portfolio Assessment—required for all students**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 494</td>
<td>LEADERSHIP PORTFOLIO</td>
<td></td>
</tr>
</tbody>
</table>

### Restrictions on Selecting Courses From Across Lists 1 and 2

Two courses must be at the 400 level. No more than 5 credits can be taken from the student’s major area. The course selected from List 1 cannot also satisfy a List 2 course option.

#### List 1: Group and Organization—select from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 250</td>
<td>SMALL GROUP COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 430</td>
<td>COMMUNICATION IN ORGANIZATIONS</td>
<td></td>
</tr>
<tr>
<td>PSYC 381</td>
<td>SOCIAL PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>SOCI 481</td>
<td>SOCIAL PSYCHOLOGY</td>
<td></td>
</tr>
</tbody>
</table>

**5**

#### List 2: Leadership Concepts—select from the following

400-level Topics courses requires prior approval of the certificate advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 210</td>
<td>INTERPERSONAL COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 250</td>
<td>SMALL GROUP COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 312</td>
<td>NONVERBAL COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 314</td>
<td>GENDER AND COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>or WMST 314</td>
<td>GENDER AND COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 340</td>
<td>INTERCULTURAL COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 397</td>
<td>WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR</td>
<td></td>
</tr>
<tr>
<td>CMST 400</td>
<td>MESSAGE DESIGN</td>
<td></td>
</tr>
<tr>
<td>CMST 413</td>
<td>COMMUNICATION AND PERSONAL RELATIONSHIPS</td>
<td></td>
</tr>
<tr>
<td>CMST 430</td>
<td>COMMUNICATION IN ORGANIZATIONS</td>
<td></td>
</tr>
<tr>
<td>CMST 431</td>
<td>COMMUNICATION LAW AND ETHICS</td>
<td></td>
</tr>
<tr>
<td>CMST 440</td>
<td>GLOBAL COMMUNICATION</td>
<td></td>
</tr>
<tr>
<td>CMST 451</td>
<td>ARGUMENTATION AND PERSUASION</td>
<td></td>
</tr>
<tr>
<td>HLED 201</td>
<td>INTRODUCTION TO HEALTH AND WELLNESS</td>
<td></td>
</tr>
<tr>
<td>HLED 381</td>
<td>MIND-BODY HEALTH</td>
<td></td>
</tr>
<tr>
<td>IBUS 471</td>
<td>MULTINATIONAL PEOPLE MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>or MGMT 471</td>
<td>MULTINATIONAL PEOPLE MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>MGMT 326</td>
<td>ORGANIZATION THEORY AND BEHAVIOR</td>
<td></td>
</tr>
<tr>
<td>MLSC 401</td>
<td>MILITARY SCIENCE AND OFFICERSHIP I</td>
<td></td>
</tr>
<tr>
<td>PHIL 411</td>
<td>THEORY OF KNOWLEDGE</td>
<td></td>
</tr>
<tr>
<td>PSYC 307</td>
<td>PSYCHOLOGY OF ADJUSTMENT</td>
<td></td>
</tr>
<tr>
<td>PSYC 315</td>
<td>PSYCHOLOGY OF HUMAN RELATIONS</td>
<td></td>
</tr>
<tr>
<td>PSYC 431</td>
<td>STRESS AND COPING</td>
<td></td>
</tr>
<tr>
<td>SOCI 471</td>
<td>SOCIOLOGY OF WORK</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 482</td>
<td>IDENTITY AND POWER</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-25</td>
</tr>
</tbody>
</table>
Criminal Justice

Sean Chabot, Chair

department page (https://www.ewu.edu/css/programs/sociology-)
329 Patterson Hall
509.359.2335

Faculty


Undergraduate Degrees

Bachelor of Arts (BA)

- Criminal Justice (p. 308)

Undergraduate Minors

- Criminal Justice (p. 309)

Undergraduate Programs

Within the Bachelor of Arts degree, the Department of Sociology and Justice Studies offers a program in Criminal Justice, blending career education and the liberal arts. Criminal Justice is an integrated major with required coursework in the core disciplines that provide the theoretical and methodological roots of contemporary criminological inquiry as well as applied coursework in Criminal Justice. The program is designed to provide an academic foundation appropriate for an educated citizen as well as particular specializations for career preparation.

The Department of Sociology and Justice Studies believes that a university must educate broadly to enrich both career and life. Accordingly, students in the Criminal Justice program will complete social science foundation courses as well as core disciplinary courses. In order to assist them as they move into a variety of career paths, students must also complete coursework in an approved specialty track.

Note: all 300 and 400 level CRIM courses have a prerequisite of sophomore standing or above.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Criminal Justice Major, Bachelor of Arts (BA)

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

Introduction

CRIM 300  INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM  5

Foundation Courses

CRIM 330  SOCIAL SCIENCE RESEARCH METHOD  5
or SOCI 357  METHOD FOR SOCIAL RESEARCH

Disciplinary Core Courses

CRIM 340  ETHICS IN CRIMINAL JUSTICE  5
or PHIL 212  INTRODUCTORY ETHICS

CSBS 320  INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES

SOCI 301  SURVEY OF CRIMINOLOGY  5

SOCI 363  SOCIOLOGY OF DEVIANCE

SOCI 452  JUVENILE DELINQUENCY

SOCI 455  CRIMINOLOGICAL THEORY

Social Justice

ANTH 438  PEACE, VIOLENCE AND CULTURE

CRIM 360  WOMEN IN PRISON

CRIM 420  PEACEMAKING CRIMINOLOGY

CRIM 421  RESTORATIVE JUSTICE

CRIM 495  INTERNSHIP

PSYC 305  CHILD AND ADOLESCENT DEVELOPMENT

PSYC 425  PSYCHOLOGY AND THE LEGAL SYSTEM

Total Credits  75

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- be able to understand and apply various methodological and theoretical approaches for conducting research and evaluation with regard to criminal justice practices and policies;
• be able to engage in critical inquiry of criminal justice institutions, practices and policies which explores their benefits and consequences for social justice and equity;
• demonstrate mastery of theories of criminology and deviance, a strong understanding of the correlates of crime and be able to make clear links between theoretical and applied contexts;
• demonstrate an awareness of the systems, processes and relationships between components which comprise the criminal justice system (courts/ law, law enforcement and corrections).

Criminal Justice Minor

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM 300</td>
<td>INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM</td>
<td>5</td>
</tr>
<tr>
<td>CRIM 330</td>
<td>SOCIAL SCIENCE RESEARCH METHOD</td>
<td>5</td>
</tr>
<tr>
<td>or SOCI 357</td>
<td>METHOD FOR SOCIAL RESEARCH</td>
<td></td>
</tr>
<tr>
<td>CRIM 382</td>
<td>CRIMINAL JUSTICE ORGANIZATION AND ADMINISTRATION</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 301</td>
<td>SURVEY OF CRIMINOLOGY</td>
<td>5</td>
</tr>
</tbody>
</table>

Electives—choose from other CRIM courses or in consultation with Criminal Justice advisor. 10

Total Credits 30
Disability Studies

Romel W. Mackelprang, Director, Disability Studies

department page (https://www.ewu.edu/css/programs/disability-studies)
233 Senior Hall
509.359.6484

Undergraduate Certificates

- Disability Studies (p. 310)

Undergraduate Program

The Disability Studies Certificate Program is an interdisciplinary program involving multiple academic departments throughout the university. Administratively, it is located in the College of Social & Behavioral Sciences and Social Work drawing students from multiple disciplines from every EWU college. It is offered in both traditional and online educational formats.

Disability Studies is a multidisciplinary field drawing from humanities, liberal arts and the sciences and is taught by faculty from multiple fields and disciplines. The Disability Studies Certificate program, offered at the undergraduate and graduate levels, educates students to develop an understanding of disability, disability culture and people with disabilities as inclusive members of society. The program's emphasis on universal access complements the university's mission to prepare its graduates to live and work in a diverse society.

The Disability Studies Certificate program recognizes disability is part of the tapestry of a diverse society. It emphasizes universal access the philosophy that society should be inclusive of people of all diverse backgrounds and traits and that the responsibility for diversity transcends traditional identity based characteristics. Universal Access (UA) embraces an approach that responsible societies do not just accommodate minorities but are constructed; for all people; majority and minority, typical and atypical.

Graduate Certificates

- Disability Studies (p. 310)

Graduate Program

The Interdisciplinary Disability Studies Program encourages people with a minimum of a bachelor's degree preparation and who are interested in disability, disability culture, and the lived experiences of persons with disabilities to enroll in the graduate courses offered. Post-baccalaureate students and matriculated graduated students are invited to enroll in Disability Studies course that ares offered in both traditional and online formats. Non-matriculated students will be required to follow university procedures to enroll in the Certificate Program.

Disability Studies Certificate

The Disability Studies Certificate is a 15 credit hour program that educates students about disability, disability culture, and the lived experiences of persons with disabilities. It consists of three courses, including a community-based service-learning course.

Disability Studies is also an optional area of study for students pursuing an Interdisciplinary Studies major.

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<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSST 310</td>
<td>DISABILITY, CULTURE AND SOCIETY</td>
</tr>
<tr>
<td>DSST 410</td>
<td>DISABILITY AS DIVERSITY</td>
</tr>
<tr>
<td>DSST 490</td>
<td>SENIOR CAPSTONE PROJECT IN UNIVERSAL ACCESS</td>
</tr>
</tbody>
</table>

Total Credits 15

Student Learning Outcomes—students will

- demonstrate knowledge of the perceptions and beliefs about disability throughout history and in contemporary society;
- identify disability culture and recognize the contributions of Disabled persons in society;
- display knowledge of how laws and policies influence the lives of people with disabilities;
- analyze societal representations of defining disability including the moral, medical and social models;
- understand disability as a characteristic in the diverse tapestry of society;
- apply the principles of universal access to disability and to other diverse societal characteristics.

Disability Studies Graduate Certificate

The Graduate Disability Studies Certificate, a 25 credit hour program provides three options. The 15 credit program educates students about disability, disability culture and the lived experiences of persons with disabilities. The 20 credit Critical Disability Studies Certificate explores the liberal arts foundation of disability studies and diversity studies. The 20 credit Applied Disability Studies Certificate applies laws and policies to the study of human rights and diversity. Students successfully completing all 25 DSST credits earn the Critical and Applied Disability Studies Certificate.

---

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSST 501</td>
<td>DISABILITY, CULTURE AND SOCIETY</td>
</tr>
<tr>
<td>DSST 510</td>
<td>DISABILITY AS DIVERSITY</td>
</tr>
<tr>
<td>DSST 590</td>
<td>INTERDISCIPLINARY PROJECT IN UNIVERSAL ACCESS</td>
</tr>
</tbody>
</table>

Expanded Certificate Option 0-10

Applied Disability Studies

- DSST 520 HUMAN DIVERSITY AND SOCIETY: LAWS AND SOCIAL POLICIES

Critical Disability Studies

- DSST 530 DISABILITY: CRITICAL PERSPECTIVES FROM THE LIBERAL ARTS AND HUMANITIES

Critical and Applied Disability Studies

- DSST 520 & DSST 530 HUMAN DIVERSITY AND SOCIETY: LAWS AND SOCIAL POLICIES and DISABILITY: CRITICAL PERSPECTIVES FROM THE LIBERAL ARTS AND HUMANITIES

Total Credits 15-25

Student Learning Outcomes—students will

- demonstrate knowledge of the perceptions and beliefs about disability throughout history and in contemporary society;
• identify Disability culture and recognize the contributions of disabled/ Disabled persons in society;
• recognize how laws and policies influence the lives of people with disabilities
• analyze societal representations of defining disability including the moral, medical and social models;
• analyze the place of disability and disabled persons in academic traditions and disciplines, and in society as a whole;
• understand disability as a characteristic in the diverse tapestry of society;
• apply the principles of universal access to disability and to other diverse societal characteristics.

Additional Student Learning Outcomes, Applied Disability Studies Certificate:

• analyze how laws and policies influence the lives of people with disabilities and other traditionally devalued populations based on characteristics including race/ethnicity, sex and gender, sexual orientation and gender identity, religion and nationality;
• apply a framework for evaluating the impact of laws and policies relative to those that, a) limit or deny groups; b) address or redress problems categorically; c) provide benefits or opportunities to specific groups, and/or d) are universally and non-categorically based.

Additional Student Learning Outcomes, Critical Disability Studies Certificate:

• understand the place and value of disabled people within the foundational philosophies of Western society;
• articulate the nature, and problematic character, of representations of disability in literature, film, art, and performance;
• critique contemporary depictions and deployments of disability;
• recognize and appreciate how people with disabilities and Disability culture have, and continue to, develop their own counter-narratives.

Additional Student Learning Outcomes, Critical and Applied Disability Studies Certificate:

• analyze how laws and policies influence the lives of people with disabilities and other traditionally devalued populations based on characteristics including race/ethnicity, sex and gender, sexual orientation and gender identity, religion and nationality;
• apply a framework for evaluating the impact of laws and policies relative to those that, a) limit or deny groups; b) address or redress problems categorically; c) provide benefits or opportunities to specific groups, and/or d) are universally and non-categorically based.
• understand the place and value of disabled people within the foundational philosophies of Western society;
• articulate the nature, and problematic character, of representations of disability in literature, film, art, and performance;
• critique contemporary depictions and deployments of disability;
• recognize and appreciate how people with disabilities and Disability culture have, and continue to, develop their own counter-narratives.
Geography

Stacy Warren (swarren@ewu.edu), Program Director
department page (https://www.ewu.edu/css/programs/geography)
103 Isle Hall
509.359.2433

Faculty
John T. Dorwin, Jerry R. Galm, Kassahun Kebede, Sarah A. C. Keller,
Robert R. Quinn, Robert R. Saunders, Julia E. Smith, Lauren A. Stachowiak,
Stacy Warren, Michael L. Zukosky.

Undergraduate Degrees
Bachelor of Arts (BA)
- Geography (p. 313)

Undergraduate Minors
- Geography (p. 314)

Undergraduate Certificates
- Geographic Information Systems (p. 312)
- Wetlands Science and Management (p. 314)

Undergraduate Programs

The Department of Geography and Anthropology offers courses of study leading to the Bachelor of Arts in Geography. A Minor in Geography is also offered, as well as Certificates in Geographic Information Systems (GIS) and Wetlands Science and Management. The Geography program is designed for students seeking professional careers in environmental fields, GIS, education and graduate study. Typical career fields include computer cartography and GIS, urban and regional planning, community development, environmental analysis, park ranger, intelligence analyst, hydrologist, climatologist, natural resource specialist, demographer, historic preservation specialist and numerous other related environmental fields.

The Department of Geography and Anthropology has a number of physical facilities available for student use in conjunction with coursework. Included are a cartography lab, a map library and a GIS and computer-mapping laboratory.

Admissions Requirements for Geography and Anthropology

Students who plan to become candidates for advanced degrees are advised to complete two years of a foreign language. Also, Geography majors are advised to take at least one course in statistics.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Certificates
- Geographic Information Systems (p. 312)

Geographic Information Systems Certificate

The Certificate in Geographic Information Systems offers students an intensive, interdisciplinary course of study in the field of Geographic Information Systems (GIS) technology. Candidates must take four required classes and choose three additional classes from a list of options for a total of 24–30 credits. All students study a core of computer mapping and spatial analysis basics and then focus on their own application area (e.g. wildlife biology, wetlands, programming, cartographic design). An internship or similar participation in a ‘real world’ GIS project is a required component of the certificate program. This certificate program is open to all majors and post-degree students. In order to qualify for admission to the GIS Certificate Program, full-time EWU students must hold a GPA ≥3.0 and be entering or past their junior year, or obtain special permission from the certificate program advisor. Post-degree continuing education students who did not graduate from their previous school with at least a GPA ≥3.0 will be admitted on a probationary basis. A grade ≥3.0 must be earned in each course for it to count toward the Certificate.

Required Certificate Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 428</td>
<td>GEOGRAPHIC INFORMATION SYSTEMS II</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 429</td>
<td>GEOGRAPHIC INFORMATION SYSTEMS III</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 493</td>
<td>GIS PORTFOLIO</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives

GIS Speciality—choose one

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 427</td>
<td>DESKTOP MAPPING</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
</tbody>
</table>

Interdisciplinary—choose one

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 323</td>
<td>GIS FOR ENVIRONMENTAL SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td>or PLAN 496</td>
<td>EXPERIMENTAL COURSE</td>
<td></td>
</tr>
</tbody>
</table>

Application Area 3-5

Student selects appropriate (non-GIS) course with approval of certificate advisor, to complement chosen application area focus, e.g. Soils, Wetlands, Visual Basic, Global Issues.

Total Credits 24-30

Student Learning Outcomes—students will

- demonstrate mastery of foundational concepts of geographic information science;
- demonstrate mastery of foundational concepts of social context of geographic information;
- have the ability to critically evaluate quality and accuracy of spatial data;
- show demonstrated proficiency with GIS software;
- have the ability to communicate geographic information through well-designed maps;
- have the ability to work in teams.

Geographic Information Systems Graduate Certificate

The Graduate Certificate in Geographic Information Systems offers current graduate and post-baccalaureate students an intensive, interdisciplinary course of study in the field of Geographic Information Systems. It is designed for students who wish to gain specialized knowledge and skills in GIS, which are increasingly important in a wide range of fields. The program offers a 24-credit curriculum that includes courses in GIS principles, data management, and applications. Students will learn to use GIS software to analyze and visualize spatial data, and will develop skills in data collection, spatial analysis, and project management. Upon completion of the certificate program, students will be prepared to work in a variety of careers that require GIS expertise, such as urban planning, environmental assessment, natural resource management, and public health.
Systems (GIS) technology and theory. All certificate students complete four required courses that introduce GIS concepts and applications, database formats, mapping, and spatial analysis. Based on area of specialization, students then elect to pursue GIS applications in either the environmental sciences or the social sciences. All students are required to participate in a “real world” GIS project in order to complete the certificate. The graduate certificate is open to all current graduate students and to post-degree continuing education students. No prior background in GIS is required.

**Required Core**
- GEOG 528 GEOGRAPHIC INFORMATION SYSTEMS I (5)
- GEOG 538 GEOGRAPHIC INFORMATION SYSTEMS II (5)
- GEOG 548 GEOGRAPHIC INFORMATION SYSTEMS III (5)
- GEOG 549 GIS PORTFOLIO (2)

**Elective Concentrations**

**Application Area Concentration**
- GEOG 521 GIS FOR SOCIAL SCIENCES (3-5)
- or GEOG 523 GIS FOR ENVIRONMENTAL SCIENCE

**Programming and Geospatial Database Concentration**
- GEOG 536 GIS PROGRAMMING (5)
- or GEOG 599 DIRECTED STUDY

**Visualization Techniques Concentration**
- GEOG 527 DESKTOP MAPPING (3-5)
- or GEOG 599 DIRECTED STUDY

Note: Current graduate students in programs other than this certificate program will be required to demonstrate use of GIS analysis in their master’s research project. Current post-baccalaureate students will be required to complete an internship with a designated community partner as part of their GEOG 548 course.

**Total Credits:** 28

**Student Learning Outcomes—students will**

- demonstrate mastery of foundational concepts of geographic information science;
- demonstrate knowledge of the history of the technologies, methodologies, and philosophies of geographic information science;
- critically evaluate research in the field of geographic information science;
- critically evaluate the quality and accuracy of spatial data;
- demonstrate proficiency with geographic information system software and related programming languages;
- design and implement methods and communicate results using geographic information system software as part of critical spatial analysis research.

**Geography Major, Bachelor of Arts (BA)**

Cooperative studies and programs are coordinated with Environmental Science, Biology, Geology, History, Children’s Studies, International Affairs, and Urban and Regional Planning.

The Geography program has four major missions:

1. providing general education courses to enrich the liberal arts offerings in both the sciences and social sciences;
2. offering specialized or more advanced courses to service other programs in the university;
3. providing a solid academic major for students wishing to pursue graduate study or work as a professional; and
4. supporting research, consulting and other services for the region.

Notes:
- a minor is strongly recommended for the Geography BA;
- two years of a single high school foreign language or one year of a single college level foreign language is required.

**Required Disciplinary Foundation Courses**
- GEOG 100 FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT (5)
- GEOG 101 FUNDAMENTALS OF HUMAN GEOGRAPHY (5)

**Required CSBS Foundation Course**
- CSBS 310 FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY (5)

**Choose one of the following** (5)
- CSBS 320 INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES
- GEOG 328 GEOGRAPHIC INFO SYSTEMS I

**Required Disciplinary Core Courses**
- GEOG 201 INTRODUCTION TO FIELD RESEARCH (5)
- GEOG 227 INTRODUCTION TO MAP AND AIR PHOTO ANALYSIS (3)
- GEOG 230 WORLD REGIONAL GEOGRAPHY (5)
- GEOG 392 SEMINAR IN HISTORY AND PHILOSOPHY OF GEOGRAPHY (2)
- GEOG 490 THE GEOGRAPHER’S CAPSTONE (5)

**Elective Concentration: choose one of the following** (20-25)

**CSBS Certificate Program**
Students may select one of the approved interdisciplinary certificate programs from the CSBS Certificate Program List, with approval of the Geography Program Director. Additional Geography electives may be required to reach the 20 credit minimum if the approved Certificate is less than 20 credits.

**Geography Graduate School Track**
Students may follow the traditional four field focus (human, physical, regional, technical) that is the expected preparation for graduate school. See full Geography Graduate School Track list below.

**Specialization Track**
Under certain circumstances, students may be allowed to design 20 to 25 credit group of electives that best expose them to the branch of geography they wish to pursue, with approval of the Geography Program Director. Select a minimum 5 credits from each of the following four groups.

**Geography Graduate School Track Coursework**

**Human**
- GEOG 250 GLOBAL ECONOMIC DEVELOPMENT
- GEOG 317 RESOURCES AND CONSERVATION
- GEOG 355 THE GEOGRAPHY OF THEME PARKS
- GEOG 357 THE GEOGRAPHY OF CHILDHOOD
- GEOG 406 WOMEN AND MEN IN THE CULTURAL LANDSCAPE
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOG 450</td>
<td>GLOBAL TRANSPORT DEVELOPMENT</td>
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<tr>
<td>GEOG 459</td>
<td>POLITICAL GEOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>GEOG 465</td>
<td>URBAN GEOGRAPHY: ORIGINS, FORMS AND FUNCTIONS</td>
<td></td>
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<tr>
<td>GEOG 469</td>
<td>BUILT ENVIRONMENTS OF NORTH AMERICA: SYMBOL AND STRUCTURE</td>
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</table>

**Physical**

<table>
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<tr>
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<th>Course Title</th>
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<tr>
<td>GEOG 204</td>
<td>ATMOSPHERIC ENVIRONMENT</td>
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<tr>
<td>GEOG 305</td>
<td>INTRO TO OCEANOGRAPHY</td>
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</tr>
<tr>
<td>GEOG 306</td>
<td>VEGETATION ECOLOGY OF NORTH AMERICA</td>
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<tr>
<td>or BIOL 306</td>
<td>NATURAL VEGETATION ECOLOGY OF NORTH AMERICA</td>
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</tr>
<tr>
<td>GEOG 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
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<tr>
<td>or BIOL 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
<td></td>
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<tr>
<td>GEOG 314</td>
<td>WEATHER AND CLIMATE</td>
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<tr>
<td>GEOG 315</td>
<td>SURFACE HYDROLOGY</td>
<td></td>
</tr>
<tr>
<td>GEOG 325</td>
<td>WETLAND SCIENCE I</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>GEOMORPHOLOGY</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>APPLIED GEOGRAPHIC STUDIES</td>
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**Regional**

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<tr>
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</thead>
<tbody>
<tr>
<td>GEOG 330</td>
<td>GEOGRAPHY OF THE PACIFIC NORTHWEST</td>
<td></td>
</tr>
<tr>
<td>GEOG 332</td>
<td>GEOGRAPHY OF LATIN AMERICA</td>
<td></td>
</tr>
<tr>
<td>GEOG 333</td>
<td>GEOGRAPHY OF MONSOON ASIA</td>
<td></td>
</tr>
<tr>
<td>GEOG 498</td>
<td>SEMINAR</td>
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</table>

**Techniques**

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
<td></td>
</tr>
<tr>
<td>GEOG 329</td>
<td>AIR PHOTO INTERPRETATION</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>APPLIED GEOGRAPHIC STUDIES</td>
<td></td>
</tr>
<tr>
<td>GEOG 427</td>
<td>DESKTOP MAPPING</td>
<td></td>
</tr>
<tr>
<td>GEOG 428</td>
<td>GEOGRAPHIC INFORMATION SYSTEMS II</td>
<td></td>
</tr>
</tbody>
</table>

**Elective—choose course in consultation with department advisor** | 4-5 |

**Total Credits** | 14-15 |

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### Wetlands Science and Management Certificate

The Certificate in Wetlands Science and Management provides EWU students with a focused training in the field of Wetland Science. The curriculum encompasses both the physical science that defines wetlands and the social context of wetlands in terms of their functions and value to society. Successful completion of the Wetlands Certificate requires 23 credits of required class work and 8 to 10 credits of electives for a total of 31 to 33 credits. Coursework is interdisciplinary, blending together classes from biology, geography and planning. This certificate program is open to all majors.

**Required Certificate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 411</td>
<td>FIELD BOTANY</td>
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<tr>
<td>GEOG 312</td>
<td>FUNDAMENTALS OF SOIL SCIENCE</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 325</td>
<td>WETLAND SCIENCE I</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 490</td>
<td>THE GEOGRAPHER'S CAPSTONE</td>
<td>5</td>
</tr>
<tr>
<td>PLAN 430</td>
<td>ENVIRONMENTAL PLANNING</td>
<td>5</td>
</tr>
</tbody>
</table>

**Electives—choose two courses from the following** | 8-10 |

Other courses can be substituted as electives if selected in consultation with and approved by the Wetlands Certificate coordinator.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 405</td>
<td>LIMNOLOGY</td>
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<td>GEOG 315</td>
<td>SURFACE HYDROLOGY</td>
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</tr>
<tr>
<td>GEOG 328</td>
<td>GEOGRAPHIC INFO SYSTEMS I</td>
<td></td>
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<tr>
<td>GEOG 410</td>
<td>GEOMORPHOLOGY</td>
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<td>GEOL 470</td>
<td>HYDROGEOLOGY</td>
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<tr>
<td>PLAN 431</td>
<td>ENVIRONMENTAL IMPACT STATEMENTS</td>
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<tr>
<td>PLAN 440</td>
<td>LAND USE PLANNING</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** | 31-33 |

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**Student Learning Outcomes—students will**

- demonstrate mastery of the foundational concepts of wetlands science;
- demonstrate mastery of the foundational concepts of the social context of wetlands;
- be able to identify and analyze wetlands landscapes in a field work setting;
- be able to communicate information about wetlands in written, oral, and mapped forms;
- be able to work in teams.

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### Geography Minor

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 100</td>
<td>FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>FUNDAMENTALS OF HUMAN GEOGRAPHY</td>
<td>5</td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).
History

Liping Zhu, History Chair
department page (https://www.ewu.edu/css/programs/history)
107 Reid
509.359.7954

Faculty


Undergraduate Degrees

Bachelor of Arts (BA)
• History (p. 316)

Undergraduate Minors
• History (p. 320)
• History/Secondary (p. 320)

Undergraduate Certificates
• Latin American and Iberian Studies (p. 320)
• Public History (p. 321)

Teacher Certification/Add-on Endorsement
• History/Add-on Endorsement (p. 321)

Undergraduate Programs

George Santayana wrote that “Those who cannot remember the past are condemned to repeat it.” History provides the most useful key of knowledge for unlocking all other realms of human development. It embraces many fields of academic inquiry and uses them to provide a detailed picture of various cultures and their governments, legal systems, social behavior, art, economic systems, literature, religions, medicines, technologies, sports, fashions and a myriad other endeavors. A university-level education would be inconceivable without it, because learning about the past is imperative to understanding the present and preparing for the future. The study of history provides a solid foundation not only for history and social studies education majors but also for careers in law, business, government, international relations, journalism, library services and museums, to name but a few. As peoples of different ethnicities interact with each other more frequently in the 21st century, understanding each others' past paves the way for harmonious and beneficial cross-cultural relations.

In addition to resources of the university library, students have access to materials at the Northwest Museum of Arts and Culture and the Washington State Archives, Eastern Region. Internships are available at several agencies in the area, such as the Northwest Museum of Arts and Culture, the University Archives and the City/County Historic Preservation Office.

History Degree Descriptions

The History Department offers both a major and a minor for the Bachelor of Arts degrees. History courses also appear in Africana Studies, American Indian Studies, Chicano Studies and Women's and Gender Studies Programs. The department also offers a Master of Arts degree.

Any student who is considering a major or minor in history is strongly encouraged to consult with an advisor from the Department of History in the early stages of his or her academic study at EWU.

General Degree Completion Requirements

Courses used to fulfill the History Program requirements for the BA (50 and 65 credit options) and the History Minor (18 credits) require a minimum grade ≥2.0 in each course and a minimum GPA ≥2.5 for all such courses.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees

Master of Arts (MA)
• History (p. 319)
• History, Public History Concentration (p. 319)

Graduate Program

Michael Conlin (mconlin@ewu.edu), Program Advisor
107 Reid
509.359.7851

The MA program in History is designed to prepare students for pursuits requiring a historical background. Students who are interested in teaching careers, in preparation for doctoral programs and in participation in professional internships such as library, museum or archival work, can design a program to suit their needs.

The Public History MA Concentration at Eastern Washington University prepares students to put history to work in the world. Public historians work in archives, in museums, in local, state and federal government, at historic sites and in private industry. The concentration in Public History is a sequence of courses within the History MA. Public History students will fulfill all the requirements of the History MA, in addition to the required Public History courses. With proper planning, a concentration in Public History should not require any more coursework than a more traditional MA program.

Applicants for the MA program in History should submit:
• an official transcript from an accredited college or university which has awarded the student a baccalaureate degree. At least a (B) ≥3.0 average is normally expected, although most applicants have a higher GPA. Applicants are expected to have a background in history;
• a substantial writing sample reflecting serious academic effort;
• a one-page personal statement on career plans and interest in pursuing graduate studies in history;
• letters of recommendation from two individuals familiar with the applicant’s academic work or other experience relevant to historical training.

Deadlines for admission to the MA program in History
• fall quarter April 15
Notes:

- winter quarter October 15
- spring quarter February 15

After admission to the graduate program, candidates will complete at least sixty (60) credits of coursework, five (5) to fifteen (15) credit hours may be HIST 600 or HIST 601. No more than fifteen (15) credits of coursework may be taken at the 400-level. Undergraduate EWU history courses included in a master’s program must be taught by the graduate faculty of the History Department. The student’s program and choice of courses must be approved by the department program advisor. All candidates must take the master’s oral examination. In addition, candidates will either complete a master’s thesis, a research report in lieu of thesis or take written examinations over their two fields, which are explained in the next paragraph. The oral examination and the thesis, research report or written examinations will be completed during the student’s final quarter of graduate study. All courses included in the student’s graduate program must be completed with a grade ≥3.0.

Prior to selecting a thesis topic, research report topic or two fields of specialization, graduate students shall acquire appropriate historiographic background by completing HIST 501 and four readings courses, i.e., from HIST 506 to HIST 548.

Notes:

- HIST 501, HIST 550, HIST 590, HIST 598, HIST 599, HIST 600, HIST 601 and HIST 694 are not readings courses;
- Students are also required to complete HIST 550 and HIST 598;
- HIST 550 is a prerequisite for HIST 598. HIST 550 and HIST 598 must be completed before a student can be advanced to candidacy;
- only students who are passed to candidacy can take HIST 600 or HIST 601.

Further specialization for the master’s degree includes the preparation of one of the following:

- two fields (normally selected from two of the readings courses) plus an additional ten credits of HIST 599 or other approved coursework or a thesis, or research report;
- special professional internship programs in library, museum and archival work are available. These must be arranged with the department and have graduate committee approval. Public history students are required to fulfill all of the requirements of the MA described above.

A research report may be substituted for the thesis requirement. Students interested in the public history field should contact the graduate program advisor as early as possible.

Grade Requirements

Students who receive a grade of <3.0 more than once will be dropped from the History MA program.

History Major, Bachelor of Arts (BA)

Students may choose the 50- or the 65-credit major.

The 50-credit History major requires the completion of a minor or certificate approved by a history advisor.

Notes:

- two years of a single high school foreign language or one year of a single college level foreign language is required; completion of two or more years of a college-level foreign language is strongly recommended;
- students must complete at least 25 credits of this major at Eastern Washington University;
- must include 35 upper-division credits in the total.

### Required Courses

#### Introductory Survey—choose one from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 102</td>
<td>WORLD HISTORY: TO 1500</td>
</tr>
<tr>
<td>HIST 103</td>
<td>WORLD HISTORY: FROM 1500</td>
</tr>
<tr>
<td>HIST 104</td>
<td>EAST ASIA: TRADITION AND TRANSFORMATION</td>
</tr>
<tr>
<td>HIST 105</td>
<td>WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY</td>
</tr>
<tr>
<td>HIST 106</td>
<td>WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT</td>
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</tbody>
</table>

#### Foundation Courses

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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>HIST 290</td>
<td>HISTORY TODAY: ISSUES AND PRACTICES</td>
</tr>
<tr>
<td>or HIST 389</td>
<td>PUBLIC HISTORY</td>
</tr>
<tr>
<td>HIST 390</td>
<td>HISTORIAN AS DETECTIVE</td>
</tr>
<tr>
<td>HIST 490</td>
<td>SENIOR CAPSTONE SEMINAR</td>
</tr>
</tbody>
</table>

#### Core Courses—25+ credits must be upper-division and must include at least one pre-modern course, indicated by an asterisk (*) in the core course distribution list below.

#### Core Course Distribution List (* indicates a pre-modern core course)

Note: Courses that are listed under more than one heading may be applied toward either area. However, such courses may not be double counted (i.e., a single course may not be simultaneously applied to two areas).

#### U.S. History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
</tr>
<tr>
<td>or AAST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
</tr>
<tr>
<td>or HONS 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
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<tr>
<td>HIST 303</td>
<td>U.S. HISTORY 1607-1877</td>
</tr>
<tr>
<td>HIST 304</td>
<td>U.S. HISTORY 1877-PRESENT</td>
</tr>
<tr>
<td>HIST 305</td>
<td>PATHS TO THE AMERICAN PRESENT</td>
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<tr>
<td>HIST 313</td>
<td>ASIAN AMERICAN HISTORY</td>
</tr>
<tr>
<td>HIST 316</td>
<td>AMERICAN INDIAN HISTORY I</td>
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<td>or IDST 316</td>
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</tr>
<tr>
<td>HIST 317</td>
<td>AMERICAN INDIAN HISTORY II</td>
</tr>
<tr>
<td>or IDST 317</td>
<td>AMERICAN INDIAN HISTORY II</td>
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<tr>
<td>HIST 373</td>
<td>HIST OF AMERICAN WILDERNESS</td>
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<td>HIST 392</td>
<td>WOMEN IN THE AMERICAN WEST</td>
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<td>HIST 468</td>
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<td>HIST 470</td>
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<td>HIST 471</td>
<td>AMERICAN REVOLUTION, 1763-1824</td>
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<td>HIST 473</td>
<td>THE AGE OF JACKSON</td>
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<td>HIST 475</td>
<td>CIVIL WAR AND RECONSTRUCTION</td>
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<td>HIST 478</td>
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<td>HISTORY OF AMERICAN FOREIGN RELATIONS FROM 1898</td>
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<td>HIST 482</td>
<td>HISTORY OF AMERICAN WEST</td>
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<td>HIST 483</td>
<td>HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST</td>
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<td>ECONOMIC HISTORY OF THE UNITED STATES</td>
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<td>HIST 425</td>
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<td>HIST 426</td>
<td>HELLENISTIC GREECE (*)</td>
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<td>HIST 427</td>
<td>ROMAN REPUBLIC (*)</td>
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<td>HIST 428</td>
<td>ROMAN EMPIRE (*)</td>
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<td>HIST 429</td>
<td>ANCIENT NEAR EAST (*)</td>
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<td>HIST 430</td>
<td>HISTORY OF ENGLAND TO 1603 (*)</td>
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<td>HIST 432</td>
<td>MODERN BRITAIN SINCE 1870</td>
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<td>BRITISH EMPIRE SINCE 1850</td>
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<td>HIST 435</td>
<td>IRISH HISTORY AND CULTURE</td>
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<td>FRENCH REVOLUTION AND NAPOLEON</td>
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<td>HIST 457</td>
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The 65-credit major does not require a minor.

Notes:

- two years of a single high school foreign language or one year of a single college level foreign language is required; completion of two or more years of a college-level foreign language is strongly recommended;
• students must complete at least 25 credits of this major at Eastern Washington University.

Required Introductory Surveys—choose two from the following 10

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<td>WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY</td>
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Required Foundation Courses

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<td>PUBLIC HISTORY</td>
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<td>HIST 390</td>
<td>HISTORIAN AS DETECTIVE 5</td>
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<td>HIST 490</td>
<td>SENIOR CAPSTONE SEMINAR 5</td>
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Required Core—must include at least one pre-modern course, indicated by an asterisk (*) in the core course distribution list below.

Core Course Distribution List (* indicates a pre-modern core course)

Note: Courses that are listed under more than one heading may be applied toward either area. However, such courses may not be double counted (i.e., a single course may not be simultaneously applied to two areas).

U.S. History 10

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<td>or HONS 220</td>
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<tr>
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European History 10

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<td>HIST 341</td>
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<td>HIST 350</td>
<td>WAR AND SOCIETY</td>
</tr>
<tr>
<td>HIST 357</td>
<td>RUSSIA TO 1905 (*)</td>
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<td>HIST 360</td>
<td>HISTORY OF SOCIETY (*)</td>
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<td>HIST 426</td>
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<td>HIST 427</td>
<td>ROMAN REPUBLIC (*)</td>
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<td>HIST 428</td>
<td>ROMAN EMPIRE (*)</td>
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<td>HIST 429</td>
<td>ANCIENT NEAR EAST (*)</td>
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Global/Comparative History 10

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<td>Total Credits</td>
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Student Learning Outcomes—students will

- display an ability to do original research in library, archival and electronic resources;
- develop writing proficiency on historical topics;
- analyze and interpret a wide spectrum of historical source materials;
- demonstrate knowledge about a wide variety of historical issues, themes, events and persons;
- articulate how their historical training can be applied in various careers;
- display an appreciation for the culturally diverse nature of human beings from a historical perspective.

**History, Master of Arts (MA)**

**Degree Requirements**

**Required Common Core**

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**Further Specialization**

Preparation of two fields

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**Student Learning Outcomes—students will**

- understand historical studies, including historical methodology and selected aspects of modern historiography;
- demonstrate factual and bibliographic mastery and the ability to interpret
- institutional and cultural change in two historical fields;
- conduct effective library research and write a major graduate research paper;
- think critically about historical information and historical problems.

**History, Public History Concentration, Master of Arts (MA)**

**Required Common Core**

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**Further Specialization**

Preparation of two fields

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<tr>
<td>Electives</td>
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Public History students will choose electives based on their career goals and academic interests. MA students are permitted to take up to 15 credits of 400–level courses towards their MA degrees, and may petition for more if appropriate for their focus.

**Required Reading Courses**

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<thead>
<tr>
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<tr>
<td>HIST 469</td>
<td>BUILT ENVIRONMENTS OF NORTH AMERICA: SYMBOL AND STRUCTURE</td>
<td></td>
</tr>
<tr>
<td>HIST 498</td>
<td>SEMINAR</td>
<td></td>
</tr>
<tr>
<td>HIST 546</td>
<td>CULTURAL RESOURCE MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>HIST 548</td>
<td>INTRODUCTION TO ARCHIVES</td>
<td></td>
</tr>
<tr>
<td>HIST 590</td>
<td>HISTORICAL WRITING AND EDITING</td>
<td></td>
</tr>
</tbody>
</table>

**Required Reading Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title &amp; Notes</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 542</td>
<td>PUBLIC HISTORY</td>
<td>15-20</td>
</tr>
</tbody>
</table>
History Minor

Note: at least 10 credits of coursework for the minor must be upper-division and at least 10 credits of this minor must be completed at Eastern Washington University.

Required Courses

Choose HIST courses from two or more areas on the Core Course Distribution List (U.S. History, European History, Global/Comparative History).

Total Credits 18

History/Secondary Minor

This minor satisfies the endorsement for grades 5–12.

Note: this minor endorsement requires a grade ≥2.5 in all coursework done in the minor at Eastern.

Required Courses

HIST 104 or HIST 365 EAST ASIA: TRADITION AND TRANSFORMATION 5
HIST 105 WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY 5
HIST 106 WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT 5
or HIST 306 MODERN EUROPE 5
HIST 303 U.S. HISTORY 1607-1877 5
HIST 304 U.S. HISTORY 1877-PRESENT 5
HIST 483 HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST 5

Students select two courses from the following 9
Anthropology
ANTH 366 REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD 5
ANTH 455 ARCHAEOLOGY OF MESO-AMERICA 5

Chicano Studies
CHST 218 CHICANO HISTORY 5
CHST 300 SURVEY OF CHICANO LITERATURE 5

Geography
GEOG 332 GEOGRAPHY OF LATIN AMERICA 5

Government
POLI 320 INTERNATIONAL SYSTEMS 5
POLI 322 INTERNATIONAL POLITICAL ECONOMY 5
POLI 327 POLITICS OF DEVELOPING NATIONS 5
POLI 402 TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS 5

History
HIST 360 HISTORY OF SPAIN 5
HIST 461 COLONIAL LATIN AMERICA 5
HIST 463 CULTURAL HISTORY OF LATIN AMERICA 5
HIST 464 HISTORY OF MEXICO 5
HIST 490 SENIOR CAPSTONE SEMINAR 5

Total Credits 30

Latin American and Iberian Studies Certificate

Stretching over twenty countries, from Mexico to Central America and the Caribbean to South America, Latin America is a major world region, neighbor to the United States and increasingly the point of origin for a significant number of Americans. Through growing hemispheric links such as NAFTA, CAFTA and the OAS, Latin America has been and will continue to be a major area of U.S. business, economic and political relations. The Latin American and Iberian Studies Certificate will provide the EWU student, and the Spokane metropolitan area, with the opportunity to gain a highly specialized and integrative knowledge of the internal and international issues related to Latin America and Iberia (Spain and Portugal), by focusing on culture, history, politics and language in a premier public university setting.

Acceptance to the certificate program requires that the student have at least a cumulative GPA ≥3.0 in all courses at EWU and the approval of the certificate coordinator. In no course required for the certificate can the student receive <3.0 and all courses within the certificate must have a cumulative GPA ≥3.3.

All courses for the certificate must be completed at EWU; transfer credits will not be accepted for certificate completion. Completion of this certificate will also satisfy the minor requirement for students completing majors where a minor is required.

Required Certificate Courses

Language requirement 15
Instruction in the Spanish, Portuguese or French languages through the Modern Languages and Literature language programs.

Required
ANTH 357 PEOPLES OF LATIN AMERICA 5
HIST 365 LATIN AMERICAN HISTORY 5
HIST 493 CERTIFICATE SYNTHESIS AND ASSESSMENT 1
or POLI 493 PORTFOLIO ASSESSMENT 5
or ANTH 493 PORTFOLIO ASSESSMENT 5

Students select two courses from the following 9
Anthropology
ANTH 366 REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD 5
ANTH 455 ARCHAEOLOGY OF MESO-AMERICA 5

Chicano Studies
CHST 218 CHICANO HISTORY 5
CHST 300 SURVEY OF CHICANO LITERATURE 5

Geography
GEOG 332 GEOGRAPHY OF LATIN AMERICA 5

Government
POLI 320 INTERNATIONAL SYSTEMS 5
POLI 322 INTERNATIONAL POLITICAL ECONOMY 5
POLI 327 POLITICS OF DEVELOPING NATIONS 5
POLI 402 TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS 5

History
HIST 360 HISTORY OF SPAIN 5
HIST 461 COLONIAL LATIN AMERICA 5
HIST 463 CULTURAL HISTORY OF LATIN AMERICA 5
HIST 464 HISTORY OF MEXICO 5
HIST 490 SENIOR CAPSTONE SEMINAR 5

Students may incorporate the following courses into the program when certificate-themed and with the approval of the certificate coordinator.
Reference the course description section for clarification. Required courses in this program of study may have prerequisites. Note: other certificate-themed courses at the 300- or 400-level may exceptionally fulfill requirements with the approval of the certificate coordinator.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
<tr>
<td>CHST 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
<tr>
<td>POLI 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
<tr>
<td>HIST 499</td>
<td>DIRECTED STUDY</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 35

**Student Learning Outcomes—students will**

- demonstrate awareness of the historical, social, cultural, geographic and political dynamics of the Latin American and Iberian countries (Latin America, Spain, and Portugal);
- apply normative and empirical tools to the study of Latin American and Iberian political, cultural and governmental realities, both past and present;
- apply knowledge of Latin American and Iberian history to interpret current political, social and cultural dynamics in Latin America and Iberia (Spain and Portugal) and in comparison to other world regions;
- acquire basic communication skills in Spanish, French or Portuguese;
- attain advanced understanding of Latin America and Iberia, sufficient to enter graduate studies concerning the region, or a track wherein expertise in Latin America, Spain and/or Portugal is necessary.

**Public History Certificate**

Public history describes the many applied history careers outside of secondary and collegiate teaching. Public historians work for museums, historic homes, libraries, archives and state and national parks; additionally, they work for local, state and federal governmental agencies. Public historians may apply their knowledge of the past to film, television or web production; they may work as freelance writers or in cultural resource management. The Public History Certificate will prepare students for these exciting career opportunities with a combination of practical coursework and field experiences.

Acceptance to the certificate program requires that the student have at least a cumulative GPA ≥3.0 and the approval of the certificate coordinator. The student must not earn <3.0 in any course required for the certificate or <3.3 cumulatively for certificate courses. At least 21 credits for the certificate must be completed at EWU.

Note: The Public History Certificate coordinator must approve all elective courses applied to completion of the requirements for the Public History Certificate. Depending on the student’s career goals, interdisciplinary courses applied to the Public History Certificate could focus on grant writing, Geographic Information Systems, web design, local government and history or other relevant topics. Interdisciplinary electives will normally be at the 300- or 400-level; at least 5 Interdisciplinary electives will normally be at the 300- or 400-level; at least 5 credits must be HIST credits that were not applied to the completion of the student’s major requirements or to the Public History Certificate’s required core courses.

**Student Learning Outcomes—students will**

- demonstrate knowledge of public history practice and techniques;
- communicate effectively with a non-academic or client-based audience;
- demonstrate the ability to present original historical research to diverse audiences;
- demonstrate the ability to learn and communicate in multiple learning environments;
- learn the practice of public history through an applied internship.

**Teacher Certification/Add-on Endorsement**

For students who currently possess a Washington State Teaching Certificate.
This add-on satisfies the endorsement for grades 5–12.

Note: this add-on endorsement requires a grade ≥2.5 in all coursework done in the add-on at Eastern.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100</td>
<td>GENERAL EDUCATION ECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>FUNDAMENTALS OF HUMAN GEOGRAPHY</td>
<td>5</td>
</tr>
<tr>
<td>HIST 104</td>
<td>EAST ASIA: TRADITION AND TRANSFORMATION</td>
<td>5</td>
</tr>
<tr>
<td>or HIST 365</td>
<td>LATIN AMERICAN HISTORY</td>
<td>5</td>
</tr>
<tr>
<td>HIST 105</td>
<td>WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY</td>
<td>5</td>
</tr>
<tr>
<td>HIST 106</td>
<td>WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT</td>
<td>5</td>
</tr>
<tr>
<td>or HIST 306</td>
<td>MODERN EUROPE</td>
<td></td>
</tr>
<tr>
<td>HIST 303</td>
<td>U.S. HISTORY 1607-1877</td>
<td>5</td>
</tr>
<tr>
<td>HIST 304</td>
<td>U.S. HISTORY 1877-PRESENT</td>
<td>5</td>
</tr>
<tr>
<td>HIST 483</td>
<td>HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST</td>
<td>5</td>
</tr>
<tr>
<td>POLI 100</td>
<td>MODERN GOVERNMENT IN AMERICAN CONTEXT</td>
<td>5</td>
</tr>
<tr>
<td>SOST 390</td>
<td>SOC STUDIES IN SEC SCHOOL</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits** 49
Interdisciplinary Studies

John L. Neace, Senior Director
department page (https://www.ewu.edu/css/programs/interdisciplinary-studies)
300 Senior Hall
509.359.6524

Faculty
Varies according to degree program option.

Undergraduate Degrees

Bachelor of Arts (BA)
- Interdisciplinary Studies: Liberal Arts (p. 325)
- Interdisciplinary Studies: Prior Learning (p. 326)
- Interdisciplinary Studies (p. 324)
- Interdisciplinary Studies: Addiction Studies (p. 325)
- Interdisciplinary Studies: Philosophical Studies (p. 325)

Undergraduate Programs
The Interdisciplinary Studies Program offers students degree programs which provide a broad background applicable to a variety of careers. The program has three emphases: liberal arts, prior learning and interdisciplinary studies.

This program is intended to serve:
- students who prefer a broad liberal arts concentration (Liberal Arts);
- students who have acquired substantial specialized training and experience outside the academic classroom (Prior Learning);
- students who wish to complete an interdisciplinary option using two or three academic disciplines (Interdisciplinary).

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Course by Course Evaluation
The Course by Course Evaluation process is available for currently enrolled students, seeking to have their out-of-classroom learning evaluated by an academic department for specific course equivalency. The faculty establishes the evaluation criteria in order to determine the students learning which must be comparable to the content of the Eastern course being challenged. All challenges must be approved by the department chair. For more specific information contact the Department of Interdisciplinary Studies.

Major in Interdisciplinary Studies Leading to a Master of Occupational Therapy (MOT)
The Advanced Standing Master of Occupational Therapy program will allow a student to complete the requirements for an undergraduate degree while enrolled in courses required for the first year of the professional Occupational Therapy program. The student begins the occupational therapy track in the senior year, earns a Bachelor of Arts degree in Interdisciplinary Studies and applies to the Advanced Standing MOT program, which can be completed over the next one and half years. This program will introduce occupational therapy to undergraduate students early in their career development.

Admission to Combined Bachelor’s and Master of Occupational Therapy Program
The student first meets with the Admissions Coordinator of the Occupational Therapy Department for review of prerequisites, the course of study and a discussion of occupational therapy as a profession. A student pursuing a BA in Interdisciplinary Studies will be referred to the director of Interdisciplinary Studies for formal application.

Students interested in working toward a combined Bachelor’s and Master of Occupational Therapy should contact Carrie Walker, Admissions Coordinator, Department of Occupational Therapy, Eastern Washington University, 310 N. Riverpoint Blvd., Box R, Spokane WA 99202-1675 or call 509.368.6560.

Students interested in the Bachelor of Arts in Interdisciplinary Studies major are encouraged to meet with an advisor from the Department of Occupational Therapy during the sophomore year and no later than the spring of the junior year. During the first three years of the Interdisciplinary Studies major with an emphasis in Occupational Therapy, the student develops a course of study to address his or her interests, as well as meet university and interdisciplinary studies' major requirements. Additionally, during this time, the student fulfills the prerequisite requirements for the Advanced Standing MOT.

Students who require advising in the Interdisciplinary Studies major with an emphasis in Occupational Therapy should contact John Neace (jneace@ewu.edu), Director, Interdisciplinary Studies, 300 Senior Hall, Cheney, WA, 99004-2414 or call 509.359.6524.

Admission into the occupational therapy track is offered only one time per year with students beginning the program summer quarter. A group interview is required for admission into the occupational therapy track. The deadline for applications is the January 1st prior to the expected summer quarter admission. The department admission committee will review and evaluate all applicants’ admission materials and prerequisites. Check with the department for exact admission deadlines: 509.368.6560.

Occupational Therapy Track Admission Criteria
- Completion of 122 or more undergraduate credits and all general education requirements for EWU.
- Completion of all prerequisite courses for application to the occupational therapy track. All of the prerequisite courses must be completed prior to admission into the occupational therapy track.

Additional Requirements
The admissions process in occupational therapy is highly competitive. The requirements listed below are the minimum acceptable requirements to apply to the program and are not indicative of the competitive range of students generally accepted into the program.

The following are the minimum acceptable requirements:
- minimum cumulative GPA ≥3.0 in the last 60 graded quarter hours;
- minimum cumulative GPA ≥3.0 for all prerequisite courses with no course <2.5.

Students enrolled in the occupational therapy track must complete the schedule of courses in the MOT curriculum toward completion of a BA in Interdisciplinary Studies.

Notes:
• see Occupational Therapy for the list of courses;
• a student may elect to discontinue the occupational therapy track and decide not to pursue the Master of Occupational Therapy. The student may complete the remaining 180 credits toward graduation in courses outside the occupational therapy curriculum and meet the graduation requirements for a Bachelor of Arts in Interdisciplinary Studies.

Interdisciplinary Graduate Programs (http://www.ewu.edu/grad)

Colin Ormsby, Vice Provost for Academic Planning, Graduate Programs, Grants and Institutional Research
206 Showalter Hall
509.359.4217

Interdisciplinary programs using existing offerings from qualified departments may be arranged with the approval of the vice provost for Graduate Education and Research and a committee representing the fields of study involved. This committee, under the vice provost, provides the student with program advice and supervision.

Admission

Students applying for admission to a Master of Arts or Master of Science interdisciplinary degree program must follow the procedures for general admission to Graduate Studies as set forth previously in this catalog.

In addition, admission to an interdisciplinary degree program requires:
• a GPA ≥3.0 for the last 90 graded quarter credits
• an approved program proposal that has signatures of the faculty who have agreed to serve as advisors. The proposal form can be found at the Graduate Studies website.

Program Requirements

• minimum of 50 quarter credits
• no more than 12 credits at the 400 level
• no more than 12 credits of independent study (499 or 599)
• minimum of 20 credits in the major, including either a research project or thesis, and minimum of 15 credits in at least one minor field.

3. submission of the proposal to the vice provost for Graduate Education and Research or designee, listing the courses in the program of study and signed for approval by the department chair in the major field and each minor field (or graduate program director for fields not located within a single department);
4. inclusion in the proposal of a statement written by the student explaining how the proposed combination of courses comprises an interdisciplinary degree program and is not simply a combination of courses from multiple disciplines;
5. inclusion within the program of a project (variable credit) that integrates the various disciplines represented;
6. inclusion in the proposal of a research component.

Approval of the program by the vice provost for Graduate Education and Research or designee shall be forthcoming only after a meeting of the vice provost or designee and the student’s interdisciplinary faculty committee. A purpose of the meeting will be to clarify how the program is interdisciplinary and not simply a combination of courses from multiple disciplines.

The Interdisciplinary Program Review Committee (IPRC), a Committee to the Graduate Affairs Council, serves as the designee for the vice provost responsible for graduate studies and provides oversight and approval for graduate students submitting interdisciplinary program proposals.

The membership of the IPRC shall consist of three graduate faculty members appointed by the Graduate Affairs Council. At least one of the three Committee members must be a member of the Graduate Affairs Council.

The IPRC shall
• review interdisciplinary program proposals distributed to them by the Graduate Programs Office;
• meet with the student’s interdisciplinary faculty committee as required above;
• request and review any additional information or materials from the student or the student’s interdisciplinary faculty committee members that is deemed necessary for assessing the general academic rigor of the proposed program of study; and
• notify, in writing, the student, the student’s interdisciplinary faculty committee members, the Graduate Programs Office, the appropriate vice provost, and the Graduate Affairs Council of all Committee decisions regarding interdisciplinary program proposals.

The student’s Interdisciplinary faculty committee will consist of two or three graduate faculty members representing the disciplines with at least 15 credits in the program and will be chaired by a graduate faculty member from one of the fields represented who has the appropriate background to advise the student on the proposed interdisciplinary research. An oral comprehensive examination is required to complete an interdisciplinary graduate degree program.

Interdisciplinary Studies, Bachelor of Arts (BA)

This option is for students who prefer an interdisciplinary option, combining 60 upper division credits from two or three academic departments, programs or certificates. Interdisciplinary Studies students follow the guidance of department chairs to design their courses in an area that an existing major does not accommodate. Pre-approval is required from departments or program directors and the Interdisciplinary Studies director.

Pre-approval is required from departments or program directors and the Interdisciplinary Studies director.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required

This option is for students who prefer an interdisciplinary option, combining 60 upper division credits from two or three academic departments, programs or certificates. Interdisciplinary Studies students follow the guidance of department chairs to design their courses in an area that an existing major does not accommodate.

<table>
<thead>
<tr>
<th>Total Credits</th>
<th>60</th>
</tr>
</thead>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• be prepared for career mobility and adaptability by selecting the appropriate academic concentration;
• select the program option to craft a degree plan to enhance career goals and objectives.

Interdisciplinary Studies: Addiction Studies, Bachelor of Arts (BA)

Grace Creasman, Director
668 N. Riverpoint Blvd. 239
509.828.1437

Jenna Redhawk, Program Coordinator
509.828.1436

Addiction Studies (BA) (p. 290)
(ADST) is an approved provider through NAADAC, The Association for Addiction Professionals. The ADST degree option provides students with the educational requirements necessary to become certified as a Chemical Dependency Professional in the state of Washington. Students who complete all state required courses for certification are eligible to take the NAADAC exam before completing other state requirements.

Our courses provide students with a theoretical knowledge base and practical skills for assessing the level of care needed for persons suffering from various addictive behaviors. The addiction field offers an excellent chance for graduates to make a significant impact on people and to help guide them toward healthy life styles.

Courses are prepared to provide students with:
• knowledge to understand addictions and approaches to intervention, including assessment, treatment, relapse prevention, and case management;
• individual and group counseling skills and techniques;
• the tools to explore specific needs of individuals and groups including, women, youth, the elderly, adult children of alcoholics, people with concurrent disorders or other disabilities and people with process addictions.

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• demonstrate basic knowledge about substance use disorders;
• demonstrate familiarity with behavior change and recovery models;
• apply intervention and recovery knowledge and methods to practice;
• demonstrate competence around issues related to self-awareness, diversity, ethics and continuing education.

Interdisciplinary Studies: Liberal Arts, Bachelor of Arts (BA)

The Liberal Arts option is designed to give students a breadth of academic experience to enrich their lives and broaden their understanding of the human experience. Students participating in this program complete 60 upper division credits from the following three categories: Humanities, Sciences and Social Sciences. A 20/20/20 credit combination must be completed in these three breadth areas. These categories parallel the gecrs but are broader categories and are not restricted to those particular departments and courses. These courses must be completed in addition to Eastern Washington University’s GECR requirement. Final approval of the degree plan is required by the senior director of Interdisciplinary Studies.

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required;
• these courses must be completed in addition to EWUs GECR requirements;
• please contact the Department of Interdisciplinary Studies.

Required—choose courses from the following areas—must be upper-division

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>20</td>
</tr>
<tr>
<td>Sciences</td>
<td>20</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• be prepared for career mobility and adaptability by selecting the appropriate academic concentration;
• select the program option to craft a degree plan to enhance career goals and objectives.

Interdisciplinary Studies: Philosophical Studies, Bachelor of Arts (BA)

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 301</td>
<td>INTRODUCTION TO FORMAL LOGIC</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>HISTORY OF ANCIENT WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>HISTORY OF MODERN WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 322</td>
<td>HISTORY OF CONTEMPORARY WESTERN PHILOSOPHY</td>
<td>5</td>
</tr>
</tbody>
</table>

Select at least two 400-level philosophy classes 10

Capstone Requirement

All students must complete either ITGS 400 or any Senior Capstone class with their advisor’s approval 4-5

Interdisciplinary Stream Electives

Students must complete at least 26–30 additional upper division credits from the classes designated in their respective stream. Students may count relevant classes not listed in the streams, including transfer credits, with their advisor’s approval. 26-30

Total Credits 60-65

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will
• critically analyze, using logic and other tools, the consistency and verifiability of their own beliefs and the beliefs of others, as well as engage in reasoned public deliberation challenging those beliefs;
• understand the main doctrines and evaluate the arguments that underpin the ancient, modern, and contemporary periods of thought;
• offer interpretations of the ideas of major philosophers by showing how they relate to perennial philosophical themes such as: visions of the good life, reality versus appearance, the roles of reason and experience, freedom and morality, etc;
• apply methods for philosophical problem solving by (a) relating theory to practice, (b) evaluating ideas in terms of both generic or universal humanity and perspectival pluralism, and (c) applying normative standards of truth, value and beauty;
• apply philosophical writing styles in writing assignments and research projects that are aimed at extending philosophical inquiry through argumentation and/or comparative studies.

Interdisciplinary Studies: Prior Learning, Bachelor of Arts (BA)

This program is designed for the adult who comes to Eastern with professional or paraprofessional preparation and experience.

Note:

• two years of a single high school foreign language or one year of a single college level foreign language is required.
• ITDS 300 enables the adult learner to translate experiential learning into elective credit through the development of a portfolio.
• Portfolios are submitted to faculty members who determine the credit award.
• Portfolio assessment does require a fee: please contact the Department of Interdisciplinary Studies for current fee.

Required

Students design a 60-credit, upper-division emphasis that meets their specific goals and objectives. Specific courses are not required other than ITDS 300. A student may earn up to 45 elective credits for prior learning experience that can be applied only to the Interdisciplinary Studies degree.

| Total Credits | 60 |

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• be prepared for career mobility and adaptability by selecting the appropriate academic concentration;
• select the program option to craft a degree plan to enhance career goals and objectives.
International Affairs

Dr. Kristin Edquist, Director
department page (https://www.ewu.edu/css/programs/international-affairs)
233A Patterson Hall
509.359.7460

Faculty
Varies.

Undergraduate Degrees

Bachelor of Arts (BA)
Each concentration offers a choice of major.
Note: the 54-credit major concentrations requires the completion of a foreign language minor.

- International Affairs - Global Security Processes Concentration (p. 328)
- International Affairs - Global Socio-Economic Processes Concentration (p. 329)
- International Affairs - Global Public Policy Concentration (p. 327)

Undergraduate Program

The International Affairs (IA) Program, housed in the Political Science & International Studies Department, is designed for students interested in international politics and global languages and cultures. It offers a carefully integrated and relatively flexible interdisciplinary set of courses in the social sciences leading to the degree of Bachelor of Arts in International Affairs. The goal of this major is to provide students with a solid foundation in the liberal arts for employment and/or advanced study in an international field.

The program of study provides a choice of three concentrations: Global Security Processes, Global Socio-Economic Processes or Global Public Policy. These concentrations give students the opportunity to acquire a theoretically and historically grounded understanding of one significant process in which people and countries are currently engaged. IA students learn to consider issues broadly, to see interconnections among geographic regions, and to engage in critical and creative thinking about them. The IA major prepares students for employment, lifelong learning and life enrichment, and fits Eastern Washington University’s larger purpose of providing quality liberal arts education with meaningful career preparation.

All IA majors are strongly encouraged to pursue study abroad as part of their undergraduate education. The IA major culminates in a Senior Capstone seminar, in which students demonstrate their ability to master analytical approaches to the complex process of globalization and to apply those approaches to a specific issue or process related to globalization. This course thus brings to bear their acquired knowledge of world events and their critical thinking skills on an issue, process or region of significance to the particular student.

Students majoring in International Affairs will gain competency in current global relations scholarship and skills in research, writing and oral communication. Students will be prepared to go on to graduate study in a wide array of disciplines such as international studies, development, education, political science or law. They will also be well equipped for career opportunities in the public, private and non-profit sectors.

The International Affairs program, in conjunction with EWU’s chapter of the political science honor society, Pi Sigma Alpha, sponsors lectures, forums and debates on campus which encourage students to consider the integrated character of global and regional political, economic and social issues. IA students regularly participate in these clubs.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

International Affairs Major with a Global Public Policy Concentration, Bachelor of Arts (BA)

Students may choose the 56- or 74-76 credit major.
Note: the 56 credit major concentration requires the completion of a foreign language minor.

Core—no substitutions for core courses.

| Required Disciplinary Foundation Core |
| INST 200  | GLOBAL ISSUES  | 4 |
| POLI 203  | INTRODUCTION TO COMPARATIVE POLITICS  | 5 |
| POLI 204  | INTRODUCTION TO INTERNATIONAL POLITICS  | 5 |

| Required Disciplinary Core |
| INST 490  | SENIOR CAPSTONE: GLOBALIZATION  | 5 |
| POLI 320  | INTERNATIONAL SYSTEMS  | 5 |
| POLI 321  | INTERNATIONAL ORGANIZATIONS  | 5 |
| POLI 322  | INTERNATIONAL POLITICAL ECONOMY  | 5 |
| POLI 493  | PORTFOLIO ASSESSMENT  | 2 |

| Methods Requirement Core—choose one |
| CSBS 310  | FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY  | 5 |
| CSBS 320  | INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES  | |

| Global Public Policy Concentration Electives  | 15 |
| ECON 200  | INTRODUCTION TO MICROECONOMICS  | |
| ECON 421  | LABOR ECONOMICS  | |
| ECON 450  | PUBLIC FINANCE AND PUBLIC POLICY  | |
| ECON 474  | INTERNATIONAL FINANCE  | |
| ECON 475  | ECONOMIC DEVELOPMENT  | |
| POLI 333  | PUBLIC MANAGEMENT  | |

Total Credits 56

Note: the 74-credit major concentration does not require the completion of a foreign language minor.

Core—no substitutions for core courses.

| Required Disciplinary Core |
| INST 200  | GLOBAL ISSUES  | 4 |
| POLI 203  | INTRODUCTION TO COMPARATIVE POLITICS  | 5 |
| POLI 204  | INTRODUCTION TO INTERNATIONAL POLITICS  | 5 |
### Required Disciplinary Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INST 490</td>
<td>SENIOR CAPSTONE: GLOBALIZATION</td>
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</tr>
<tr>
<td>POLI 320</td>
<td>INTERNATIONAL SYSTEMS</td>
<td>5</td>
</tr>
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<td>POLI 321</td>
<td>INTERNATIONAL ORGANIZATIONS</td>
<td>5</td>
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<tr>
<td>POLI 322</td>
<td>INTERNATIONAL POLITICAL ECONOMY</td>
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<td>POLI 493</td>
<td>PORTFOLIO ASSESSMENT</td>
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</table>

### Methods Requirement

- CSBS 310 FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY
- or CSBS 320 INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES

### Global Public Policy Concentration Electives—credits must be taken from at least three of the disciplines listed.

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<thead>
<tr>
<th>Course</th>
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<tr>
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<td>LABOR ECONOMICS</td>
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<td>PUBLIC FINANCE AND PUBLIC POLICY</td>
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<td>GEOG 450</td>
<td>GLOBAL TRANSPORT DEVELOPMENT</td>
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<td>GEOG 459</td>
<td>POLITICAL GEOGRAPHY</td>
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<tr>
<td>GEOG 465</td>
<td>URBAN GEOGRAPHY: ORIGINS, FORMS AND FUNCTIONS</td>
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<td>PLAN 261</td>
<td>COMMUNITY DEVELOPMENT</td>
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<td>PLAN 430</td>
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<td>LAND USE PLANNING</td>
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<td>PLAN 442</td>
<td>SUSTAINABLE COMMUNITIES</td>
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<td>PLAN 476</td>
<td>COMPARATIVE URBANIZATION</td>
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<tr>
<td>POLI 333</td>
<td>PUBLIC MANAGEMENT</td>
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</table>

**Total Credits: 74-76**

For information on General Education, see Undergraduate Degree (p. 39).

### Student Learning Outcomes—students will

- apply social science research methods to at least one non-U.S. case study;
- demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues;
- identify and represent accurately the key ideas, people, historical events, social processes and governmental systems associated with various geographic regions around the world;
- apply critical thinking and problem solving skills to political issues and should utilize normative and empirical analysis tools in the study of national and international political realities;
- demonstrate awareness of racial, ethnic, gender and religious dynamics in historic and contemporary political questions;
- demonstrate mastery of and apply accurately key analytic concepts of the social sciences, to cases, states and regions around the world.

---

**International Affairs Major with a Global Security Processes Concentration, Bachelor of Arts (BA)**

Students may choose the 54-56 or 74-76 credit major.

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**Note:** the 54-56 credit major requires the completion of a foreign language minor.

### Core—no substitutions for core courses.

#### Required Disciplinary Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>INST 200</td>
<td>GLOBAL ISSUES</td>
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<tr>
<td>POLI 203</td>
<td>INTRODUCTION TO COMPARATIVE POLITICS</td>
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#### Required Disciplinary Core

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<td>INST 490</td>
<td>SENIOR CAPSTONE: GLOBALIZATION</td>
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</table>

### Core—no substitutions for core courses.

#### Required Disciplinary Core

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<td>INTRODUCTION TO INTERNATIONAL POLITICS</td>
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**Note:** the 74-credit major concentration does not require the completion of a foreign language minor.
Eastern Washington University

<table>
<thead>
<tr>
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<td>POLI 321</td>
<td>INTERNATIONAL ORGANIZATIONS</td>
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<td>POLI 322</td>
<td>INTERNATIONAL POLITICAL ECONOMY</td>
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<tr>
<td>POLI 493</td>
<td>PORTFOLIO ASSESSMENT</td>
<td>2</td>
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</table>

**Methods Requirement**

- CSBS 310  FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY  5
- or CSBS 320 INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES

**Required Global Security Processes Concentration**

- POLI 323  U.S. FOREIGN POLICY  5

**Required GOVT Supporting Course—choose one from the following**

- POLI 326  EUROPEAN POLITICS
- POLI 327  POLITICS OF DEVELOPING NATIONS
- POLI 328  POLITICS OF THE PEOPLE'S REPUBLIC OF CHINA
- POLI 329  POLITICS OF SOUTH ASIA
- POLI 402  TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS

**Concentration Electives—credits in this section must be taken from at least two of the following disciplines (ANTH/GEOG is treated as one discipline).**

- ANTH 336  GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST
- or HIST 336  GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST
- or GEOG 336  GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST
- ANTH 366  REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD

- GEOG 459  POLITICAL GEOGRAPHY
- HIST 306  MODERN EUROPE
- HIST 310  IMPERIAL CHINA
- HIST 311  COLONIALISM AND NATIONALISM IN SOUTHEAST ASIA
- HIST 350  WAR AND SOCIETY
- HIST 351  GENDER AND TOTAL WAR
- or WMST 351  GENDER AND TOTAL WAR
- HIST 360  HISTORY OF SPAIN
- HIST 382  20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR
- or GERM 382  20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR
- HIST 432  MODERN BRITAIN SINCE 1870
- HIST 433  BRITISH EMPIRE SINCE 1850
- HIST 440  HISTORY OF WORLD WAR I
- HIST 441  HISTORY OF WORLD WAR II
- HIST 445  HISTORY OF MODERN GERMANY
- HIST 454  DIPLOMATIC HISTORY OF EUROPE, 1914 TO THE PRESENT
- HIST 457  20TH CENTURY RUSSIA
- HIST 461  COLONIAL LATIN AMERICA
- HIST 464  HISTORY OF MEXICO
- HIST 481  HISTORY OF AMERICAN FOREIGN RELATIONS FROM 1898

**SOCI 485  SOCIOLOGY OF REVOLUTIONS**

Total Credits  74-76

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- apply social science research methods to at least one non-U.S. case study;
- demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues;
- identify and represent accurately the key ideas, people, historical events, social processes and governmental systems associated with various geographic regions around the world;
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**International Affairs Major with a Global Socio-Economic Concentration, Bachelor of Arts (BA)**

Students may choose the 56- or 74-76 credit major.

Note: the 56 credit major concentration requires the completion of a foreign language minor.

**Core—no substitutions for core.**

**Required Disciplinary Core Courses**

- INST 200  GLOBAL ISSUES  4
- POLI 203  INTRODUCTION TO COMPARATIVE POLITICS  5
- POLI 204  INTRODUCTION TO INTERNATIONAL POLITICS  5

**Required Disciplinary Core**

- INST 490  SENIOR CAPSTONE: GLOBALIZATION  5
- POLI 320  INTERNATIONAL SYSTEMS  5
- POLI 321  INTERNATIONAL ORGANIZATIONS  5
- POLI 322  INTERNATIONAL POLITICAL ECONOMY  5
- POLI 493  PORTFOLIO ASSESSMENT  2

**Methods Requirement**

- CSBS 310  FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY  5
- or CSBS 320  INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES

**Global Socio-Economic Processes Concentration Electives—5 credit maximum from GOVT courses listed below**

- ANTH 348  PEASANT SOCIETIES
- ANTH 366  REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD
- ANTH 320  MIDDLE EASTERN HISTORY AND CULTURE
- or GEOG 320  MIDDLE EASTERN HISTORY AND CULTURE
- or HIST 320  MIDDLE EASTERN HISTORY AND CULTURE
- ANTH 436  POLITICS OF CULTURE: ISRAEL AND PALESTINE
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<td>HISTORY OF ECONOMIC THOUGHT</td>
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<td>HIST 306</td>
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<td>HIST 410</td>
<td>CHINA IN 19TH AND 20TH CENTURIES</td>
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<td>MODERN JAPAN</td>
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<td>POLI 326</td>
<td>EUROPEAN POLITICS</td>
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<td>SOCI 485</td>
<td>SOCIOLOGY OF REVOLUTIONS</td>
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Total Credits 56

Note: the 74-credit major concentration does not require the completion of a foreign language minor.

Core—no substitutions for core courses.

Required Disciplinary Core

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Methods Requirement—choose one

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<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICALS FOR THE SOCIAL SCIENCES</td>
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Required Government Supporting Courses

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Required Global Socio-Economic Processes Concentration

Electives—credits in this section must be taken from at least two of the following disciplines (ANTH/GEOG is treated as one discipline).

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<tr>
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<td>or HIST 336</td>
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<td>ANTH 342</td>
<td>TRIBES, BANDS AND CHIEFDOMS</td>
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<td>ANTH 347</td>
<td>PEOPLES OF AFRICA</td>
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<td>ANTH 348</td>
<td>PEASANT SOCIETIES</td>
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<td>ANTH 349</td>
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<td>ANTH 357</td>
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<td>ANTH 435</td>
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<td>SOCI 486</td>
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</table>

Total Credits 74-76

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- apply social science research methods to at least one non-U.S. case study,
• demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues;
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Military Science

MAJ Michael T. Eliassen, Chair & Professor of Military Science
department page (https://www.ewu.edu/css/programs/military-science)
202 Cadet Hall
509.359.2386

Faculty

MAJ Michael T. Eliassen, MAJ (R) Robert H. Riedel, CPT Gregory A.
Benjamin, MSG Jacob T. Baty

Undergraduate Degrees

Bachelor of Arts (BA)
• Military Science (p. 333)

Undergraduate Minors
• Military Science (p. 334)

Undergraduate Program

The Military Science Department is synonymous with the Army Reserve
Officer Training Corps (ROTC) program. ROTC is a curriculum in
military leadership, both theoretical and practical. Students learn the
fundamentals of leadership and progress through increasing roles and
responsibilities in order to improve individual proficiency. Many other
"life skills," such as time management, oral and written communication,
first aid and personal fitness, as well as adventure training, are also
integrated into the program. Both a major and a minor are offered. It is
commonly known as a four-year program, however, there are three and
two-year options as well. See the Contracting Options tab to understand
the variety of ways to complete ROTC.

The first two years of the Military Science curriculum is open to all
students, regardless of academic standing, without any military
obligation. The last two years is only open to students who have
entered a contract with the Army to continue the program and earn their
degree. Completion of the Advanced Course qualifies students to earn a
commission as a Second Lieutenant in the United States Army.

ROTC is organized into two parts: the Basic Course (normally taken
during the Freshman and Sophomore years) and the Advanced Course
(normally taken during the Junior and Senior years). Students with prior
service, members of the Army Reserves or National Guard may be eligible
to waive the Basic Course and complete the program in two years. ROTC
also provides a method for college students to obtain Basic Course credit
through a 4-week program called Cadet Initial Entry Training Course
(CIET). While any student can enroll in the Basic Course 100 and 200 level
classes, students who wish to contract must meet academic, medical,
physical and military screening standards, before entering the upper-
division classes, otherwise known as the Advanced Course. The Basic
Course is considered a pre-requisite for the Advanced Course.

How does the program work?

Basic Course: The Basic Course is open to any student interested in basic
leadership and military skills training without any military obligation.
The majority of Basic Course students ARE NOT CONTRACTED. This
means they can leave the program at any time. Non-contracted, enrolled
students are not receiving any form of financial incentive from the Army
while in college. There are many options for a student in the Basic Course
to contract when they decide they are ready, and if they are competitive
to contract.

The 100-level courses are 2-credit hours and consist of a one-hour class
and a two-hour leadership laboratory (3 hours weekly). The sophomore
200-level courses are 3-credit hours and consist of a two-hour class
and a two-hour leadership laboratory (4 hours weekly). The focus is on
leader development and small group dynamics combined with basic
military skills proficiency. This is an excellent opportunity for students to
determine if pursuing a contract with ROTC is for them.

A fundamental element of the Basic Course is the development of critical
thinking and problem solving skills and improvement of oral and written
communication skills. We place students in a variety of situations in
order to provide an environment within which to become better leaders.
Students are also afforded the opportunity to apply and compete for
ROTC 2- and 3-year scholarships.

Upon completion of the Basic Course, students become eligible for
entrance into the Advanced Course.

Advanced Course: Eligible students must be selected to contract into the
Advanced Course. All students in the Advanced Course sign a contract
with the Army to continue the program and to enter the Army as an
Officer (Reserve or Active Duty) upon graduation. Students can earn any
degree offered at EWU while completing ROTC.

The Advanced Course is a two-year curriculum consisting of classroom
instruction, leadership training and field training. The 300 and 400-level
courses are 4-credit hours and consist of two hours of class and a three
hour leadership laboratory (5 hours weekly). The 300-level courses are
designed to build upon small unit leader skills. Students also attend a 29-
day Cadet Leadership Course (CLC) at Fort Knox, KY, to refine the skills
they have learned on campus. The 400-level courses prepare a student for
their first assignment as an Officer.

Completion of the Advanced Course qualifies the student to earn an
officer commission in the Army, either on active duty or in the Army
Reserves or Army National Guard.

What are the degree options?

While enrolled in EWU ROTC you earn a degree in any field of study
available at the University. A major in Military Science is available but it
is not necessary for completion of the ROTC program. While there are
certain degrees better suited for specific jobs in the Army, a student
chooses their degree. Our staff advises students during this process.

What can I do with my degree?

Army ROTC prepares students to succeed in any career field.
The leadership training and experiences students obtain in Army
ROTC provides a foundation for excellence even if they only participate in
portions of the program.

Upon college graduation and completion of the ROTC program,
graduates commission as Second Lieutenants in the Army. They
complete Officer branch (career field) training and then report to their
first leadership position.
Learn more about the career fields Officers can pursue. Click here to view Branch specialization in the U. S. Army (http://www.goarmy.com/RotcViewCareers.do)

After their first assignment, Army Officers may pursue specialized training and/or postgraduate education opportunities. They will be assigned to advanced leadership or staff positions in upper management. They may also develop doctrine, teach military tactics or serve as advisors.

Financial Assistance
Each contracted Cadet receives a tax-free stipend allowance of $300–$500 a month for up to ten months a year. There are also cooperative programs with the Army Reserves and Army National Guard that could provide additional funds. Students who join the Army Reserves or Army National Guard and finish Basic Training and Advanced Individual Training (AIT) also qualify for the Montgomery GI Bill. The amount of financial assistance available each year changes based on Congressional mandates.

Scholarships
The ROTC program offers two-, three-, and four-year scholarships for eligible students. Every scholarship provides full tuition, $1200 annual allowance for books and class fees and a tax-free stipend of $300 per month for contracted freshmen, $350 per month for sophomores, $450 per month for juniors and $500 per month for seniors during the academic school year.

Four-Year National Scholarship Program
Interested students apply during their senior year of high school at www.goarmy.com/rotc. This process is also open to students enrolled in Running Start. The application deadline for high school seniors is January 10 of each year. Interested applicants DO NOT incur any military obligation by simply applying for a scholarship. Interested students should contact the EWU ROTC Scholarship Officer at 509.359.6110 or call nationwide 1.800.USA.ROTC.

Two and Three Year On-Campus Scholarship Program
This program is open to qualified students already enrolled in ROTC at EWU. Interested students DO NOT incur any military obligation by simply applying for a scholarship. Contact the EWU ROTC Scholarship Officer at 509.359.6110 to apply.

Extracurricular Activities
Special Qualification Training: Advanced Course and select Basic Course students may participate in confidence-building schools such as Air Assault, Airborne, Northern Warfare, Mountain Warfare, Cultural Language Program (CULP) and Cadet Troop Leader Training (CTLT). There are also special internships available for students interested in science, engineering and medical fields.

Color Guard: The Eastern Washington University ROTC Color Guard participates in a variety of school and civic functions where precision drill or presentation of the United States Flag is required.

Ranger Challenge: ROTC Cadets compete annually in a military skills and fitness competition with other schools in the region. This program is designed for those Cadets interested in challenging themselves mentally and physically while learning to operate as a member of a team.

Intramural Sports: The Department of Military Science sponsors teams which participate in basketball, volleyball, softball and other sports of the EWU Intramural program. Uniforms and equipment are provided by the Department of Military Science.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Military Science Major, Bachelor of Arts (BA)
Although not required for completion of the basic course or the advanced course, the department does offer both a major and a minor in Military Science with permission only. The major in Military Science is designed to give the student interested in a military career a broad background in various academic areas.

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required;
• many of the listed courses require prerequisites, check the course description;
• many courses must be repeated;
• the major will require more than 12 terms (or four years) to complete at an average of 15 credits per term.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CMST 200</td>
<td>INTRODUCTION TO SPEECH COMMUNICATION</td>
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<tr>
<td>CMST 438</td>
<td>TOPICS IN LEADERSHIP AND STRATEGIC COMMUNICATION</td>
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<td>CMBS 440</td>
<td>GLOBAL COMMUNICATION</td>
<td>5</td>
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<tr>
<td>CSBS 310</td>
<td>FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY</td>
<td>5</td>
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<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>HIST 350</td>
<td>WAR AND SOCIETY</td>
<td>5</td>
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<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
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<td>MLSC 101</td>
<td>BASIC MILITARY SKILLS I</td>
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<td>BASIC MILITARY SKILLS II</td>
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<td>BASIC MILITARY SKILLS III</td>
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<td>BASIC MILITARY TEAM BUILDING I</td>
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<td>MLSC 202</td>
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<td>BASIC MILITARY TEAM III</td>
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<td>MLSC 301</td>
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<td>MLSC 302</td>
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<tr>
<td>MLSC 304</td>
<td>MILITARY SCIENCE AND TACTICS LAB (must be repeated)</td>
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<tr>
<td>MLSC 307</td>
<td>LEADERSHIP DEVELOPMENT AND ASSESSMENT</td>
<td>8</td>
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<tr>
<td>MLSC 401</td>
<td>MILITARY SCIENCE AND OFFICERSHIP I</td>
<td>2</td>
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<td>MLSC 402</td>
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<td>MILITARY SCIENCE AND OFFICERSHIP III</td>
<td>2</td>
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<tr>
<td>MLSC 404</td>
<td>MILITARY SCIENCE AND TACTICS IV LAB (must be repeated)</td>
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**Military Science Minor**

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<tr>
<th>Course</th>
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<tr>
<td>MLSC 490</td>
<td>Military Leadership Senior Capstone</td>
<td>5-6</td>
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<tr>
<td>or MLSC 495</td>
<td>Professional Internship</td>
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</tr>
<tr>
<td>POLI 204</td>
<td>Introduction to International Politics</td>
<td>5</td>
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<tr>
<td>POLI 323</td>
<td>U.S. Foreign Policy</td>
<td>5</td>
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</tbody>
</table>

Students must complete one of the seven following concentrations, minors or certificate.

### The Application of Leadership

- CMST 430: Communication in Organizations
- CMST 451: Argumentation and Persuasion
- PSYC 381: Social Psychology

Choose one of the following:

- CMST 411: Negotiation Skills and Strategies
- PSYC 431: Stress and Coping
- SOCI 263: Social Problems

### Cultural Awareness for Military Leaders

- ANTH 336: Geographies of Conflict in the Middle East
- POLI 327: Politics of Developing Nations
- ANTH 320: Middle Eastern History and Culture
- ANTH 342: Tribes, Bands and Chiefdoms
- HIST 301: History of the Present
- HIST 311: Colonialism and Nationalism in Southeast Asia

### U.S. Government and Policy

- ECON 450: Public Finance and Public Policy

Choose two of the following:

- POLI 321: International Organizations
- POLI 332: The U.S. Presidency
- POLI 335: U.S. Congress

Choose one of the following:

- ECON 412: Economic History of the United States
- ECON 470: International Economics
- ECON 474: International Finance
- ECON 475: Economic Development

### Modern US Military History

- HIST 301: History of the Present
- HIST 481: History of American Foreign Relations from 1898

Two of the following:

- HIST 440: History of World War I
- HIST 441: History of World War II
- HIST 454: Diplomatic History of Europe, 1914 to the Present
- HIST 487: Economic History of the United States

### Certificate in Geographic Information Systems

- GEOG 323: GIS for Environmental Sciences
- GEOG 328: Geographic Info Systems I
- GEOG 428: Geographic Information Systems II

- GEOG 429: Geographic Information Systems III (replaces MLSC 495 (6))
- GEOG 493: GIS Portfolio

One of the following:

- GEOG 332: Geography of Latin America
- or GEOG 333: Geography of Monsoon Asia
- or GEOG 335: Geography of the Pacific Rim
- or GEOG 336: Geographies of Conflict in the Middle East

One of the following:

- GEOG 321: GIS for Social Sciences
- or GEOG 427: Desktop Mapping
- or GEOG 499: Directed Study

### Health Services Management Minor

- HSAD 300: Health Care Organization and Administration
- HSAD 310: Health Care Supervision
- HSAD 322: Health Care Technology
- HSAD 410: Health Law Regulation and Ethics
- HSAD 435: Process Improvement in Health Care

### Journalism Minor

- JRNM 330: Principles of Journalism
- JRNM 332: News Writing

Choose two of the following:

- JRNM 333: Advanced News Writing
  & JRNM 341: Reporting
  or JRNM 451: Public Relations Writing
  & JRNM 452: Introduction to Public Relations Theory

**Total Credits**: 116-117

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- know and apply basic individual and unit military skills and leadership while functioning in a tactical environment as a member of a squad or platoon;
- know and apply time management skills and troop leading procedures to develop and articulate a complete five paragraph Operations Order;
- know and apply a basic understanding of Army operations, training management, safety, risk management, counseling and communications as a member of the Cadet Battalion Chain-of-Command;
- critically analyze the current Operational Environment in which our Armed Forces are deployed to better prepare to serve as a Platoon Leader.

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**Military Science Minor**

Notes:

- must meet university requirements in Computer Literacy, English, Mathematics;
- some courses must be repeated.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>HIST 350</td>
<td>War and Society</td>
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<td>MLSC 304</td>
<td>MILITARY SCIENCE AND TACTICS LAB (must be repeated three times)</td>
</tr>
<tr>
<td>MLSC 307</td>
<td>LEADERSHIP DEVELOPMENT AND ASSESSMENT</td>
</tr>
<tr>
<td>MLSC 401</td>
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<td>MILITARY SCIENCE AND TACTICS IV LAB (must be repeated three times)</td>
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<td>Total Credits</td>
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Political Science and International Affairs

Kevin Pirch, Chair
department page (https://www.ewu.edu/css/programs/political-science)
233 Patterson Hall
509.359.2362

Faculty

Undergraduate Degrees

Bachelor of Arts (BA)
- Political Science (p. 338)
- Political Science Pre-Law Option (p. 337)

Undergraduate Minors
- Political Science (p. 337)

Undergraduate Certificates
- Asia Studies (p. 336)
- Public Policy and Administration (p. 339)

Undergraduate Programs

The Department of Political Science & International Affairs offer courses focusing largely on the study of political science, a liberal arts discipline which seeks to understand the political condition and potential of humanity. Each of the department's three degree programs is designed to provide the student with a broad understanding of political phenomena suitable to a liberal arts degree. Thus each, regardless of its specific content, requires courses in political philosophy, in American political institutions and processes and in comparative and/or international politics. In addition, the pre-law program is designed to prepare the student for a particular vocational goal. The department's International Affairs Program provides a more interdisciplinary approach to the study of government and politics. The discipline of Political Science—and therefore the program of the Department of Political Science & International Affairs—is strongly committed to a liberal arts orientation. In concert with the rest of the university the department believes also in linking traditional liberal arts preparation with meaningful career preparation through the inclusion of minor and supporting coursework and/or through student involvement in certificate programs in this or other departments. Employment opportunities for graduates are many and varied. A number of those who graduate each year continue their studies in law or other professional and graduate programs. A similar number find employment in the public sector or with domestic or international business firms. Opportunities also exist in party politics, campaign organizations, the military forces or with the communications media.

The department maintains close relations with the programs in Criminal Justice and contains the International Affairs program. In each, selected government courses are required parts of the core curriculum.

Internship and Work-Study Programs for Students

The department maintains a dynamic internship program which provides practical experience with local political and governmental agencies and annually sponsors a winter quarter in Olympia in which selected students intern with the Washington State Legislature. When possible, it is strongly urged that students include an internship as a part of their program.

In addition to external internships, students may gain practical experience through a combination of work/study and internship with a particular faculty member. Students qualifying for such programs assist the professor to whom they are assigned with research work in an area of the faculty member’s interest. The department has an active faculty with diverse research interests who have produced books and monographs, presented papers at conventions of national and regional Political Science associations and of other, more specialized scholarly organizations and completed research grants funded by agencies of the government. The opportunity to assist in such work is of value particularly to those students planning to continue their studies, or to work in the public sector in areas necessitating faculty guidance in research techniques.

Pi Sigma Alpha

In the spring of 1982, the Nu Gamma Chapter of Pi Sigma Alpha, the National Political Science Honor Society, was chartered at Eastern. This student organization serves as a vehicle for recognition of outstanding academic achievement in government and complements the department’s participation in the university Honors Program. Pi Sigma Alpha sponsors a number of social and intellectual programs for students and faculty and with its help the department attempts to maintain contact with its graduates to make available to students their experiences and insights into the value of an education in government.

General Admissions Requirements for Political Science & International Studies

Successful completion of ENGL 101 or its equivalent is required of all majors in Political Science & International Affairs; successful completion of a 200-level English course is strongly recommended for all majors in government. Course offerings at the 300–400 level are designed to provide maximum flexibility for faculty and students. Prerequisite courses are required for 300- and 400-level courses and students should consult an advisor to ensure that their course selections are appropriate.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Asia Studies Certificate

Interest in Asia and Asian Studies has increased dramatically in recent years. For some, Asia represents opportunity for business, trade and commercial exchange as one of the new and vast marketplaces of the 21st century. For others, Asia is a place where remarkable expressions of traditional culture such as religion, poetry and art have stayed alive even into the 21st century. Located in the Pacific Northwest, Washington state is a gateway to the East and offers an ideal setting to learn about the interactions between Asia and the rest of the world. This Asia Studies Certificate offers students the opportunity for a highly specialized and integrative look at trans-regional and international issues related to Asia focusing on the culture, history, politics and languages of the region.
Acceptance to the certificate program requires that the student have at least a 3.0 cumulative grade point average in all courses at EWU and the approval of the certificate coordinator. In no course required for the certificate can the student receive below a 3.0 and all courses within the certificate must have a 3.3 minimum cumulative grade point average. All required courses for the certificate other than the language requirement must be completed at EWU. Transfer credits other than language credits will not be accepted for certificate completion. Completion of this certificate will also satisfy the minor requirement for students completing majors where a minor is required.

Required Certificate Courses

- **Language requirement:** 10 credits of a relevant language (may be met with credits from outside of EWU.)
- **Directed Study Assessment:** all students must complete the assessment course
  - POLI 493 PORTFOLIO ASSESSMENT
- **Choose two courses from two of the areas and one course from the third.**
  - Political Science
    - INST 380 JAPAN TODAY
    - POLI 322 INTERNATIONAL POLITICAL ECONOMY
    - POLI 327 POLITICS OF DEVELOPING NATIONS
    - POLI 328 POLITICS OF THE PEOPLE’S REPUBLIC OF CHINA
    - POLI 329 POLITICS OF SOUTH ASIA
  - History
    - HIST 310 IMPERIAL CHINA
    - HIST 311 COLONIALISM AND NATIONALISM IN SOUTHEAST ASIA
    - HIST 410 CHINA IN 19TH AND 20TH CENTURIES
    - HIST 411 DEMOCRACY AND HUMAN RIGHTS IN ASIA
    - HIST 416 MODERN JAPAN
  - Anthropology/Geography
    - ANTH 349 MAJOR CIVILIZATIONS OF ASIA
    - GEOG 333 GEOGRAPHY OF MONSOON ASIA
    - GEOG 335 GEOGRAPHY OF THE PACIFIC RIM

**Total Credits:** 34-37

Student Learning Outcomes—students will

- demonstrate awareness of historical, social, cultural, geographic and political dynamics in Asia and Asian countries;
- apply normative and empirical tools to the study of Asian political, cultural and governmental realities, both past and present;
- apply knowledge of Asian history to interpret current political, social and cultural dynamics in Asia and in comparison to other world regions;
- acquire basic communication skills in at least one Asian language;
- attain advanced understanding of Asia sufficient to enter graduate studies concerning the region, or a career track wherein expertise in Asia is necessary.

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### Political Science Minor

**Required Courses**

- POLI 100 MODERN GOVERNMENT IN AMERICAN CONTEXT 5
- POLI 202 INTRODUCTION TO POLITICAL THEORY 5
- POLI 203 INTRODUCTION TO COMPARATIVE POLITICS 5
- Electives—choose two courses from the 300-400 level below 470 (excluding POLI 370 but may include POLI 490).

**Total Credits:** 25

### Political Science with Pre-Law Option, Bachelor of Arts (BA)

**Notes:**

- two years of a single high school foreign language or one year of a single college level foreign language is required;
- no substitutions for core courses.

**Required Introductory Courses**

- POLI 100 MODERN GOVERNMENT IN AMERICAN CONTEXT 5
- POLI 202 INTRODUCTION TO POLITICAL THEORY 5
- POLI 204 INTRODUCTION TO INTERNATIONAL POLITICS 5

**Disciplinary Core**

- POLI 300 U.S. JUDICIAL PROCESS 5
- POLI 313 ANCIENT AND MEDIEVAL POLITICAL THOUGHT 5
- or POLI 314 MODERN WESTERN POLITICAL THOUGHT 5
- POLI 320 INTERNATIONAL SYSTEMS 5
- POLI 332 THE U.S. PRESIDENCY 5
- POLI 335 U.S. CONGRESS 5

**Required Senior Level Courses**

- POLI 490 SENIOR CAPSTONE: GLOBALIZATION 5
- POLI 493 PORTFOLIO ASSESSMENT 1-2

**Elective Requirements**

- Choose two 300 level courses from two subfields
- Choose two 300 level courses from the American Government subfield
- Choose two 400 level courses below POLI 495 from two subfields

**Subfield Distribution Lists**

**American Government and Politics**

- POLI 300 U.S. JUDICIAL PROCESS
- POLI 302 CRIMINAL PROCEDURE
- POLI 304 U.S. CIVIL RIGHTS AND LIBERTIES
- POLI 305 JURISPRUDECE
- POLI 306 BASIC CONCEPTS OF CRIMINAL LAW
- POLI 307 U.S. CONSTITUTIONAL SYSTEM
- POLI 317 AMERICAN POLITICAL THOUGHT
- POLI 330 FEDERALISM, STATE AND LOCAL POLITICS
- POLI 332 THE U.S. PRESIDENCY
- POLI 333 PUBLIC MANAGEMENT
- POLI 335 U.S. CONGRESS
- POLI 336 U.S. POLITICAL PARTIES AND ELECTIONS
- POLI 360 STATE LEGISLATIVE POLITICS EXPERIENCE
Political Science, Bachelor of Arts (BA)

Students may choose between the 57- or 72-credit major. There is also a 82-credit Pre-law Option (p. 337) within the 72-credit major designed for students interested in law school or work as a paralegal.

The 57-credit major is designed for the student with a strong interest in the political realm who wishes to combine such interest with study of another major or minor field.

Notes:
- the 57 credit major requires a separate minor or POLI/CSBS approved certificate program for completion;
- two years of a single high school foreign language or one year of a single college level foreign language is required;
- no substitutions for core courses.

**Required Introductory Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>POLI 100</td>
<td>MODERN GOVERNMENT IN AMERICAN CONTEXT</td>
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<td>POLI 202</td>
<td>INTRODUCTION TO POLITICAL THEORY</td>
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<td>INTRODUCTION TO COMPARATIVE POLITICS</td>
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<tr>
<td>POLI 204</td>
<td>INTRODUCTION TO INTERNATIONAL POLITICS</td>
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**Required Core—choose two different courses from each of the three subfields.**

**American Government and Politics**

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<tr>
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<td>POLI 302</td>
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<td>POLI 400</td>
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**International Relations/Comparative Politics**

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<tr>
<td>POLI 324</td>
<td>COMPARATIVE AND INTERNATIONAL WATER POLICY</td>
<td></td>
</tr>
<tr>
<td>POLI 326</td>
<td>EUROPEAN POLITICS</td>
<td></td>
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<tr>
<td>POLI 327</td>
<td>POLITICS OF DEVELOPING NATIONS</td>
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<tr>
<td>POLI 328</td>
<td>POLITICS OF THE PEOPLE’S REPUBLIC OF CHINA</td>
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<tr>
<td>POLI 329</td>
<td>POLITICS OF SOUTH ASIA</td>
<td></td>
</tr>
<tr>
<td>POLI 402</td>
<td>TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 82

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- demonstrate basic knowledge, skills and values related to various forms and structure in governments and relate those specifics to political and policy outcomes as necessary for responsible and active participation as both national and international citizens;
- effectively apply critical thinking and problem solving skills to political issues and should be able to utilize normative and empirical analysis tools in the study of national and international political realities;
- be able to apply an understanding of foundational and enduring political thought and ideas throughout history to questions of politics and policy at the national and international levels;
- demonstrate an awareness of the role played by race, ethnicity, gender and religion in historic and contemporary political debates and an awareness of effects of multiculturalism and diversity on domestic and international affairs;
- possess effective communication skills including the verbal and writing skills needed to communicate clearly and effectively, make persuasive, professional presentations and convey information essential to the discipline and beyond in an orderly and understandable manner;
- demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues.

**Political Science, Bachelor of Arts (BA)**
The 72-credit major is designed for those with a more concentrated interest in government who do not wish to complete a structured minor or who may be interested in graduate study in political science.

### Required Introductory Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 100</td>
<td>MODERN GOVERNMENT IN AMERICAN CONTEXT</td>
<td>5</td>
</tr>
<tr>
<td>POLI 202</td>
<td>INTRODUCTION TO POLITICAL THEORY</td>
<td>5</td>
</tr>
<tr>
<td>POLI 203</td>
<td>INTRODUCTION TO COMPARATIVE POLITICS</td>
<td>5</td>
</tr>
<tr>
<td>POLI 204</td>
<td>INTRODUCTION TO INTERNATIONAL POLITICS</td>
<td>5</td>
</tr>
</tbody>
</table>

### Required Disciplinary Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 300</td>
<td>U.S. JUDICIAL PROCESS</td>
<td>5</td>
</tr>
<tr>
<td>POLI 313</td>
<td>ANCIENT AND MEDIEVAL POLITICAL THOUGHT</td>
<td>5</td>
</tr>
<tr>
<td>or POLI 314</td>
<td>MODERN WESTERN POLITICAL THOUGHT</td>
<td>5</td>
</tr>
<tr>
<td>POLI 320</td>
<td>INTERNATIONAL SYSTEMS</td>
<td>5</td>
</tr>
<tr>
<td>POLI 332</td>
<td>THE U.S. PRESIDENCY</td>
<td>5</td>
</tr>
<tr>
<td>POLI 335</td>
<td>U.S. CONGRESS</td>
<td>5</td>
</tr>
</tbody>
</table>

### Required Senior Level Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 490</td>
<td>SENIOR CAPSTONE: GLOBALIZATION</td>
<td>5</td>
</tr>
<tr>
<td>POLI 493</td>
<td>PORTFOLIO ASSESSMENT</td>
<td>1-2</td>
</tr>
</tbody>
</table>

### Elective Requirements—choose two 300 level courses from two subfields and two 400 level courses from two subfields

<table>
<thead>
<tr>
<th>Subfield Distribution Lists</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 300</td>
<td>U.S. JUDICIAL PROCESS</td>
</tr>
<tr>
<td>POLI 302</td>
<td>CRIMINAL PROCEDURE</td>
</tr>
<tr>
<td>POLI 304</td>
<td>U.S. CIVIL RIGHTS AND LIBERTIES</td>
</tr>
<tr>
<td>POLI 305</td>
<td>JURISPRUDENCE</td>
</tr>
<tr>
<td>POLI 306</td>
<td>BASIC CONCEPTS OF CRIMINAL LAW</td>
</tr>
<tr>
<td>POLI 307</td>
<td>U.S. CONSTITUTIONAL SYSTEM</td>
</tr>
<tr>
<td>POLI 317</td>
<td>AMERICAN POLITICAL THOUGHT</td>
</tr>
<tr>
<td>POLI 330</td>
<td>FEDERALISM, STATE AND LOCAL POLITICS</td>
</tr>
<tr>
<td>POLI 332</td>
<td>THE U.S. PRESIDENCY</td>
</tr>
<tr>
<td>POLI 333</td>
<td>PUBLIC MANAGEMENT</td>
</tr>
<tr>
<td>POLI 335</td>
<td>U.S. CONGRESS</td>
</tr>
<tr>
<td>POLI 336</td>
<td>U.S. POLITICAL PARTIES AND ELECTIONS</td>
</tr>
<tr>
<td>POLI 360</td>
<td>STATE LEGISLATIVE POLITICS EXPERIENCE</td>
</tr>
<tr>
<td>POLI 370</td>
<td>MOCK TRIAL I</td>
</tr>
<tr>
<td>POLI 400</td>
<td>TOPICS IN AMERICAN POLITICS</td>
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<tr>
<td>POLI 470</td>
<td>MOCK TRIAL II</td>
</tr>
<tr>
<td>International Relations/Comparative Politics</td>
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</tr>
<tr>
<td>POLI 320</td>
<td>INTERNATIONAL SYSTEMS</td>
</tr>
<tr>
<td>POLI 321</td>
<td>INTERNATIONAL ORGANIZATIONS</td>
</tr>
<tr>
<td>POLI 322</td>
<td>INTERNATIONAL POLITICAL ECONOMY</td>
</tr>
<tr>
<td>POLI 323</td>
<td>U.S. FOREIGN POLICY</td>
</tr>
<tr>
<td>POLI 324</td>
<td>COMPARATIVE AND INTERNATIONAL WATER POLICY</td>
</tr>
<tr>
<td>POLI 326</td>
<td>EUROPEAN POLITICS</td>
</tr>
<tr>
<td>POLI 327</td>
<td>POLITICS OF DEVELOPING NATIONS</td>
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<tr>
<td>POLI 328</td>
<td>POLITICS OF THE PEOPLE'S REPUBLIC OF CHINA</td>
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<tr>
<td>POLI 329</td>
<td>POLITICS OF SOUTH ASIA</td>
</tr>
<tr>
<td>POLI 402</td>
<td>TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS</td>
</tr>
</tbody>
</table>

### Total Credits

| Total Credits | 72 |

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- demonstrate basic knowledge, skills and values related to various forms and structure in governments and relate those specifics to political and policy outcomes as necessary for responsible and active participation as both national and international citizens;
- effectively apply critical thinking and problem solving skills to political issues and should be able to utilize normative and empirical analysis tools in the study of national and international political realities;
- be able to apply an understanding of foundational and enduring political thought and ideas throughout history to questions of politics and policy at the national and international levels;
- demonstrate an awareness of the role played by race, ethnicity, gender and religion in historic and contemporary political debates and an awareness of effects of multiculturalism and diversity on domestic and international affairs;
- possess effective communication skills including the verbal and writing skills needed to communicate clearly and effectively, make persuasive, professional presentations and convey information essential to the discipline and beyond in an orderly and understandable manner;
- demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues.

**Public Policy and Administration Certificate**

The Certificate in Policy Administration is intended for students who are interested in pursuing a graduate level education in an applied field. Completion of the 44 credit certificate provides a sharply focused view of policy implementation and application within the American system of government. In addition, the certificate provides students the opportunity to receive advanced placement standing within EWU’s Master’s Program.
in Public Administration. Students who complete the certificate will be required to take 36 credits of MPA core courses instead of the normally required 40 and will be required to complete 10 elective credits, rather than the usually required 20. Acceptance to the certificate program requires that the student have a cumulative grade point average 3.0 in all courses at EWU and the approval of the certificate coordinator. In no course required for the certificate can the student receive <3.0 and all courses within the certificate must have a minimum cumulative grade point average ≥3.3.

All required courses for the certificate must be completed at EWU, transfer credits will not be accepted for certificate completion.

Completion of this certificate will also satisfy the minor requirement for students completing majors where a minor is required.

These credits are required to qualify for the Advanced Standing MPA Program.

**Political Science Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 330</td>
<td>FEDERALISM, STATE AND LOCAL POLITICS</td>
<td>5</td>
</tr>
<tr>
<td>POLI 332</td>
<td>THE U.S. PRESIDENCY</td>
<td>5</td>
</tr>
<tr>
<td>POLI 333</td>
<td>PUBLIC MANAGEMENT</td>
<td>5</td>
</tr>
</tbody>
</table>

**Statistics Requirements**—meets MPA statistics background requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 380</td>
<td>ELEMENTARY PROBABILITY AND STATISTICS</td>
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</table>

**English Requirement**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>TCOM 205</td>
<td>INTRODUCTION TO TECHNICAL COMMUNICATION</td>
<td>5</td>
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</table>

**Economics Requirement**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>INTRODUCTION TO MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 450</td>
<td>PUBLIC FINANCE AND PUBLIC POLICY</td>
<td>5</td>
</tr>
</tbody>
</table>

**One of the following**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 452</td>
<td>HEALTH ECONOMICS</td>
<td></td>
</tr>
<tr>
<td>ECON 457</td>
<td>NATURAL RESOURCE ECONOMICS</td>
<td></td>
</tr>
<tr>
<td>ECON 458</td>
<td>URBAN AND REGIONAL ECONOMICS</td>
<td></td>
</tr>
<tr>
<td>ECON 470</td>
<td>INTERNATIONAL ECONOMICS</td>
<td></td>
</tr>
</tbody>
</table>

**Exit Synthesis Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 507</td>
<td>PUBLIC POLICY ANALYSIS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits**

| Total     | 44                                              |

**Student Learning Outcomes—students will**

- acquire an understanding of the institutional, political, legal and economic processes of the United States;
- acquire an understanding of the public policies of the U.S. and the ways in which they are created by and carried out through political and economic processes;
- demonstrate an ability to analyze political and economic phenomena through oral and written communication skills in public presentations, written reports and documents.
Pre-Law

Eastern Washington University offers students the opportunity to earn substantial amounts of coursework toward the requirements of a number of specific professions. Although the following Pre-Professional programs have been offered for several years by EWU, this listing is not exclusive; students who are interested in a profession which is not represented (below) are encouraged to contact the Office of General Undergraduate Academic Advising for assistance in identifying departments or programs which can offer coursework and advice as regards alternative Pre-Professional studies.

Pre-Communication Disorders (p. 230) (post-baccalaureate)
Pre-Dentistry and Pre-Medicine (p. 283)
Pre-Engineering (p. 284)
Pre-Law (p. 341)
Pre-Pharmacy (p. 285)
Pre-Veterinary Medicine (p. 286)

Pre-Law
College of Social & Behavioral Sciences and Social Work
Department of Government

James Headley, Advisor
013 Hargreaves
509.359.2781

Program Description (see Political Science & International Studies)
Enterance into law school does not depend on the completion of any particular set of undergraduate requirements, but rather on the attainment of a bachelor’s degree in a recognized field of study, a sufficient GPA and a satisfactory score on the Law School Admission Test. Accordingly, no single pre-professional program can be recommended for the study of law. A balanced preparation for the study of law should include exposure to the traditional liberal arts disciplines and the development of skills in verbal and written communication and in logical thinking.

Since many students interested in law combine that interest with a similar one in public affairs, the Department of Political Science and International Studies offers a special option major designed especially to meet the needs of pre-law students.
Psychology

Nick Jackson, Psychology Chair
department page (http://www.ewu.edu/csbssw/programs/psychology)
135 Martin Hall
509.359.2827

Faculty


Undergraduate Degrees

Bachelor of Arts (BA)
- Psychology (p. 346)

Bachelor of Science (BS)
- Applied Developmental Psychology (p. 344)

Undergraduate Minors
- Applied Developmental Psychology (p. 345)
- Psychology (p. 351)

Undergraduate Programs

Psychology is the science of human behavior and experience. Psychologists differ considerably in what they do because the field encompasses a wide range of human activities. Generally speaking, clinical, school, and counseling psychologists provide services to help people make better adjustments in their daily lives, while experimental psychologists conduct research and construct theories to help us better understand the nature of behavior.

The mission of the Department of Psychology is to educate students in the science and profession of psychology. To accomplish this mission, the department seeks to promote the acquisition of the core knowledge and principles of psychology; to enhance the student’s professional growth and development; to further the student’s ability to think analytically, logically and creatively; and to develop the student’s ability to communicate effectively. The department promotes psychology as a science and a profession by excellence in teaching, research, and service. Our undergraduate programs in psychology are patterned after the recommendations of the American Psychological Association for undergraduate majors in psychology.

The Department of Psychology is located in Martin Hall, a building that has up-to-date laboratories, classrooms and specialized clinical training areas. Our laboratories and training areas are extremely well equipped and very active. Students are encouraged to get involved in research projects and other professional activities as undergraduates.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Graduate Degrees

Master of Science (MS)
- Counselor Education with Mental Health Counseling Emphasis (p. 345)
- Counselor Education with School Counseling Emphasis (p. 346)
- Psychology with Clinical Concentration (p. 347)
- Psychology with General/Experimental Concentration (p. 348)

Educational Specialist in School Psychology (EdS)
- School Psychology (p. 348)
- School Psychology Respecialization (p. 349)

Graduate Programs

Graduate study in psychology provides the student with advanced preparation for practice in the field or for entering doctoral-level programs in psychology. Each degree program addresses the changing nature of society and professional requirements. The degree programs available through the Department of Psychology are: Master of Science in Counselor Education with emphases in either Mental Health Counseling or School Counseling; Master of Science in Psychology with concentrations in either clinical or general/experimental psychology; and Educational Specialist in School Psychology. A Post-Master’s Certificate in School Psychology and a School Counselor Professional Certificate are also offered.

Final Comprehensive Examination Policy of the Department of Psychology

1. Each student shall complete, before the awarding of the EdS and master’s degrees, a portfolio, which demonstrates the competence of the student in graduate level work in school psychology. Portfolios will reflect knowledge and skills in the National Association of School Psychology Domains of Training and Practice.

2. Students will begin their portfolio in the first year through the Professional School Psychology courses and will have a formal interview with School Psychology faculty members in the second or third quarter of their second year in the program to serve as preliminary feedback and determination of preparation for the internship experience. An oral examination that will focus primarily on the portfolio but may also include questions regarding professional practice and the internship experience will be held at the end of the third year of the program. The final oral examination will be open to all interested faculty and students and may be open to questions by outside members at the discretion of the committee. Final oral examinations will not be held over vacation periods or during summer quarter except by advance approval of the committee chair, second member and graduate office representative. The final oral examination will not be over two hours.

3. All graduate students in the School Psychology Program are subject to the academic advancement policies of Graduate Studies regarding grades.
Financial Aid
–direct inquiries and application materials to:
   Financial Aid and Scholarship Office
   Eastern Washington University
   102 Sutton Hall
   Cheney, WA 99004-2447

A limited number of graduate assistantships are awarded to students of outstanding promise. Duties assigned graduate assistants involve 20 hours per week in tasks which meet the needs of the school and the student.

Loans, work-study jobs and scholarships are available to eligible students through the university’s Office of Financial Aid.

Some fellowships and financial assistance may be available through the College of Social & Behavioral Sciences and Social Work.

Apply for financial aid no later than February 15. Application and financial files should be completed as soon after January 1 as possible for the following year. Do not wait until admission is granted.

Master of Science in Counselor Education
Keely Hope (khope@ewu.edu), Program Director
135 Martin Hall
509.359.2439

All application materials must be received by February 1 for consideration of admission for a fall quarter start. Students applying should follow the procedures for general admission to the EWU Graduate Studies office.

In addition, the following requirements should be met:
• must meet the requirements of the EWU Graduate Studies office. The Graduate Admission Committee may recommend a limited number of other students with a lower GPA to the Dean of Graduate Studies for admission based upon standard test scores, intervening experiences, and other relevant factors;
• a student is eligible for consideration for admission to the Department of Psychology programs by having obtained a GPA ≥3.0 for the last 90 quarter or 60 semester graded credits;
• completion and submission of the Graduate Record Examination (GRE) must be accomplished in time for scores to reach the department by the deadline; the department accepts scores on tests taken within five years of application;
• applicants who have submitted all requested application materials, postmarked by the deadline date may be invited for a personal interview once the admissions committee has reviewed the application;
• individuals whose application materials are not postmarked by the application deadline will only be reviewed at the discretion of the admissions committee;
• application requirements: Graduate Studies Office application, two official transcripts, one department application, three letters of recommendations, one cover letter and resume, one personal statement and GRE Scores.

The Department of Psychology offers a nationally recognized program of studies in counselor education. The program is made up of a theoretical, applied and research-based core curriculum aimed at developing professional counselors who meet national, regional and state certification standards. The program offers two emphases: Master of Science in Counselor Education: Mental Health Counseling; and Master of Science in Counselor Education: School Counseling.

The Council for Accreditation of Counseling and Related Educational Programs (CACREP), a nationally-recognized specialized accrediting body, has conferred accreditation on the Master of Science in Counselor Education: Mental Health Counseling emphasis and Master of Science in Counselor Education: School Counseling emphasis.

Selection Criteria
In addition to general university and departmental requirements, it is desirable to have a BA or BS degree in a behavioral science or human services area. It is not necessary to have a teaching certificate to enter the School Counseling track. Coursework in adjustment, counseling techniques, evaluation, group dynamics, personality theory and abnormal psychology is recommended. A course in statistics is needed.

Curricular experiences and demonstrated knowledge in each of the eight common core areas are required of all students in the program. The eight common core areas are identified in the CACREP accreditation standards as follows:
• Professional Identity,
• Social and Cultural Diversity,
• Human Growth and Development,
• Career Development,
• Helping Relationships,
• Group Work,
• Assessment,
• Research and Program Evaluation. The precise course titles vary from time to time.

A FBI fingerprint check will be required of all counseling students at the beginning of their first quarter in the program. The fee for this check is presently approximately $45 for students admitted to the Mental Health Counseling track and approximately $57 for students admitted to the School Counseling track. (School Counseling students pay a higher fee because of processing through the public school system.) The results will be assessed before advancing students to candidacy. Students will be required to apply for professional affiliations with the American Counseling Association (ACA) for Mental Health Counseling or the American School Counseling Association (ASCA) for School Counseling. Students must provide proof of affiliation and insurance liability coverage within the first quarter of study in the graduate program. Membership applications for the affiliation and insurance programs will be made available in the professional classes offered fall quarter.
• must meet the requirements of the Graduate School. The Graduate Admission Committee may recommend a limited number of other students with a lower GPA to the Dean of Graduate Studies for admission based upon standard test scores, intervening experiences and other relevant factors;

• a student is eligible for consideration for admission to the Department of Psychology programs by having obtained a GPA ≥3.0 for the last 90 quarter or 60 semester graded credits;

• completion and submission of the Graduate Record Examination (GRE) must be accomplished in time for scores to reach the department by the deadline. The department accepts scores on tests taken within five years of application;

• must submit department application directly to the Department of Psychology, a vitae/résumé, and a statement of intent for admission to the Psychology Graduate Program;

• must send three letters of recommendation to the Department of Psychology, preferably all from academic sources;

• must have a bachelor’s degree in psychology or its equivalent. Ordinarily, the applicant’s transcript must show evidence of courses in the following areas: scientific principles of psychology, inferential statistics, learning and personality theory, abnormal psychology, life span development, physiological psychology, history and systems in psychology and general/experimental psychology. Accepted applicants whose transcripts are lacking some areas of proficiency may be asked to complete appropriate courses prior to full acceptance to the program;

• it is expected that a student complete all of the requirements for admission to the Graduate School and the Department of Psychology before registering for core classes.

Students accepted will be notified of a general information meeting held preceding the beginning of their first quarter, to provide orientation to institutional and departmental procedures and to provide information about registration.

The Master of Science in Psychology is intended to prepare students to be master’s level practitioners or to pursue further graduate study in the clinical or experimental areas. A set of core classes provides students in the program with foundational knowledge in the discipline that includes methods classes that impart research and data analysis skills.

Obtaining a Master of Science in Psychology ordinarily takes two years, including summer quarter following the first year. Students are admitted to either a clinical or experimental concentration. Beyond the core classes, the clinical concentration provides additional foundational and applied courses that emphasize clinical knowledge and skills. In addition to the core courses, students in the general/experimental concentration design coursework and research experience in consultation with a faculty advisor to match the interest of the students with the expertise of the department faculty.

**Applied Developmental Psychology Major, Bachelor of Science (BS)**

The Bachelor of Science in Applied Developmental Psychology prepares students for entry-level work and graduate study in a variety of developmental and human service careers. The program covers basic areas of human developmental psychology across the life span with a special focus on processes and principles of developmental change. Elective packages may be chosen to focus preparation toward attainment of individual student objectives such as child development interventions, pre-counseling, graduate study and others.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>CHILD AND ADOLESCENT DEVELOPMENT</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 306</td>
<td>ADULT DEVELOPMENT</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 307</td>
<td>PSYCHOLOGY OF ADJUSTMENT</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 309</td>
<td>SCIENTIFIC PRINCIPLES OF PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 315</td>
<td>PSYCHOLOGY OF HUMAN RELATIONS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>DEVELOPMENTAL THEORIES AND APPLICATIONS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 324</td>
<td>CONDITIONING AND LEARNING</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 402</td>
<td>BEHAVIOR MODIFICATION</td>
<td>4</td>
</tr>
</tbody>
</table>

**Focus Experience—Students must complete 4 credits of Field Study. Students may continue Field Study for a second quarter and a total of 8 credits. Students who do not enroll for a second quarter of Field Study must complete four additional credits of PSYC 498 and/or PSYC 499.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 492</td>
<td>FIELD STUDY IN CHILD ISSUES AND PROBLEMS</td>
<td></td>
</tr>
<tr>
<td>PSYC 493</td>
<td>FIELD STUDY IN ADOLESCENT ISSUES AND PROBLEMS</td>
<td></td>
</tr>
<tr>
<td>PSYC 494</td>
<td>FIELD STUDY IN ADULT ISSUES AND PROBLEMS</td>
<td></td>
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<tr>
<td>PSYC 498</td>
<td>SEMINAR</td>
<td></td>
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<tr>
<td>PSYC 499</td>
<td>DIRECTED STUDY</td>
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**Senior Capstone: choose one**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITGS 400</td>
<td>INTERDISCIPLINARY SR CAPSTONE</td>
<td>6</td>
</tr>
<tr>
<td>PSYC 490</td>
<td>SENIOR CAPSTONE: THE TRADITION OF PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>PSYC 490A</td>
<td>SENIOR CAPSTONE: DEVELOPMENTAL PSYCHOLOGY SEMINAR</td>
<td></td>
</tr>
<tr>
<td>PSYC 490B</td>
<td>SENIOR CAPSTONE: MINDS AND VINES: PSYCHOLOGY OF WINE</td>
<td></td>
</tr>
<tr>
<td>PSYC 491</td>
<td>SENIOR THESIS (by faculty invitation)</td>
<td></td>
</tr>
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**Upper Division**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 314</td>
<td>TESTS AND MEASUREMENTS</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 344</td>
<td>INTRODUCTION TO THE HELPING PROFESSIONS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 476</td>
<td>CHILD AND FAMILY GUIDANCE</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 302</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>PSYC 483</td>
<td>GROUP DYNAMICS</td>
<td>5</td>
</tr>
</tbody>
</table>

**Additional Recommended Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 420</td>
<td>BIOLOGICAL BASIS OF BEHAVIOR</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 69-71

For information on General Education, see Undergraduate Degree (p. 39).

**Student Learning Outcomes—students will**

- develop ethical and evidence-derived decision-making;
- use APA style effectively in empirically based reports, literature reviews and theoretical papers;
- recognize and understand major perspectives of psychology;
• evaluate the appropriateness of design, statistical analyses and conclusions derived from psychological research;
• demonstrate understanding of psychological phenomena from a life-span perspective.

**Applied Developmental Psychology Minor**

Note: students must attain a grade ≥2.0 for each of the courses applying toward this minor in order to graduate with this minor.

Choice of 15 credits from the following list in consultation with an advisor. (PSYC 304 cannot be included.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>CHILD AND ADOLESCENT DEVELOPMENT</td>
</tr>
<tr>
<td>PSYC 306</td>
<td>ADULT DEVELOPMENT</td>
</tr>
<tr>
<td>PSYC 307</td>
<td>PSYCHOLOGY OF ADJUSTMENT</td>
</tr>
<tr>
<td>PSYC 309</td>
<td>SCIENTIFIC PRINCIPLES OF PSYCHOLOGY</td>
</tr>
<tr>
<td>PSYC 314</td>
<td>TESTS AND MEASUREMENTS</td>
</tr>
<tr>
<td>PSYC 315</td>
<td>PSYCHOLOGY OF HUMAN RELATIONS</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>DEVELOPMENTAL THEORIES AND APPLICATIONS</td>
</tr>
<tr>
<td>PSYC 324</td>
<td>CONDITIONING AND LEARNING</td>
</tr>
<tr>
<td>PSYC 344</td>
<td>INTRODUCTION TO THE HELPING PROFESSIONS</td>
</tr>
<tr>
<td>PSYC 402</td>
<td>BEHAVIOR MODIFICATION</td>
</tr>
<tr>
<td>PSYC 476</td>
<td>CHILD AND FAMILY GUIDANCE</td>
</tr>
<tr>
<td>PSYC 483</td>
<td>GROUP DYNAMICS</td>
</tr>
</tbody>
</table>

| Total Credits | 15 |

**Counselor Education with Mental Health Counseling Emphasis, Master of Science (MS)**

**The Master of Science in Counselor Education:** Mental Health Counseling emphasis is designed for students wishing preparation as counselors or therapists in settings such as: mental health centers, hospitals, residential treatment centers, employment services and vocational rehabilitation services. Mental health counselors are also frequently found in the juvenile correction facilities, community colleges, pastoral services and business and industry.

**Classes and experiences are organized around four objectives:**

1. a thorough preparation in foundation skills and principles;
2. a functional mastery of techniques in various therapy modes; e.g., cognitive, affective, behavioral;
3. coverage of principles, issues and trends in the psychology of counseling; and
4. self awareness as it relates to the counseling process.

Practical application is stressed. Students are provided early and continuous skill practice with personalized feedback and coaching. Continuous opportunities for expanding awareness of the self of the counselor will be provided.

The program is both extensive and comprehensive. It is nationally accredited by CACREP and fulfills education requirements for licensure for mental health counselors. Graduates will complete the NBCC exam for National Counselor Certification.

Note: successful completion of both a written comprehensive examination of conceptual attainments and an oral interview of practical applications is required.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 506</td>
<td>COUNSELING DEVELOPMENT AND TRANSITION ACROSS THE LIFESPAN</td>
</tr>
<tr>
<td>PSYC 520</td>
<td>TACTICS PSYCHOLOGICAL RESEARCH</td>
</tr>
<tr>
<td>PSYC 535</td>
<td>INTRODUCTION TO MENTAL HEALTH COUNSELING</td>
</tr>
<tr>
<td>PSYC 539</td>
<td>SEMINAR IN SPECIAL TOPICS (1-5)</td>
</tr>
<tr>
<td>PSYC 542</td>
<td>CAREER COUNSELING</td>
</tr>
<tr>
<td>PSYC 544</td>
<td>COUNSELING THEORY AND TECHNIQUES</td>
</tr>
<tr>
<td>PSYC 545</td>
<td>APPRAISAL IN MENTAL HEALTH COUNSELING</td>
</tr>
<tr>
<td>PSYC 548</td>
<td>COUNSELING CHILDREN AND ADOLESCENTS</td>
</tr>
<tr>
<td>PSYC 569</td>
<td>FAMILY SYSTEMS AND PARENT EDUCATION</td>
</tr>
<tr>
<td>PSYC 575</td>
<td>DSM TREATMENT ISSUES FOR COUNSELORS</td>
</tr>
<tr>
<td>PSYC 576</td>
<td>PROFESSIONAL ISSUES IN MENTAL HEALTH COUNSELING</td>
</tr>
<tr>
<td>PSYC 580</td>
<td>CONSULTATION IN THE COUNSELING PROFESSION</td>
</tr>
<tr>
<td>PSYC 583</td>
<td>GROUP EXPERIENCE</td>
</tr>
<tr>
<td>PSYC 584</td>
<td>GROUP THEORY</td>
</tr>
<tr>
<td>PSYC 585</td>
<td>GROUP PROCESS IN COUNSELING</td>
</tr>
<tr>
<td>PSYC 587</td>
<td>ADDICTIVE BEHAVIOR COUNSELING</td>
</tr>
<tr>
<td>PSYC 588</td>
<td>CRISIS INTERVEN AND TRAUMA COUNSEL</td>
</tr>
<tr>
<td>PSYC 590</td>
<td>DIVERSITY COUNSELING</td>
</tr>
<tr>
<td>PSYC 602</td>
<td>SCHOOL PSYC PORTFOLIO (1-6)</td>
</tr>
<tr>
<td>PSYC 694</td>
<td>PRACTICUM (1-8 must be repeated)</td>
</tr>
<tr>
<td>PSYC 697</td>
<td>INTERNSHIP IN PSYCHOLOGY (1-10 must be repeated)</td>
</tr>
</tbody>
</table>

| Total Credits | 93 |

**Student Learning Outcomes—students will:**

• assess community needs, design, implement and evaluate mental health programs and systems-Mental Health Counseling Emphasis;
• provide accurate assessment, diagnosis (where appropriate) and treatment planning for a diverse client population-Mental Health Counseling Emphasis;
• describe the ethical and legal considerations that govern the practice of mental health counseling-Mental Health Counseling Emphasis;
• utilize the American School Counseling Association’s National Model (a framework for school counseling programs) to develop an individual school’s comprehensive program-School Counseling Emphasis;
• describe and apply the counseling theories and techniques that have proven to be the most applicable to the K–12 school population-School Counseling Emphasis;
• describe and utilize the laws and ethics that govern the school counseling profession-School Counseling Emphasis.
Counselor Education with School Counseling Emphasis, Master of Science (MS)

The Master of Science in Counselor Education: School Counseling emphasis is designed for students wishing preparation as counselors in school settings, primarily public schools.

Classes and experiences are organized to provide thorough grounding in the skills and knowledge generally recognized by the counseling profession. The program is accredited by CACREP and exceeds the Washington state requirement for ESA-School Counselor Certification.

Practical application is stressed and students are provided early and continuous skill practice with personalized feedback and coaching. Continuous opportunities for expanding awareness of the self of the counselor will be provided.

Note: successful completion of both a written comprehensive examination of conceptual attainments and an oral interview of practical applications is required.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 506</td>
<td>COUNSELING DEVELOPMENT AND TRANSITION</td>
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<td>ACROSS THE LIFESPAN</td>
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<tr>
<td>PSYC 509</td>
<td>CLASSROOM MANAGEMENT FOR THE SCHOOL</td>
<td>3</td>
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<tr>
<td></td>
<td>COUNSELOR</td>
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<tr>
<td>PSYC 520</td>
<td>TACTICS PSYCHOLOGICAL RESEARCH</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 540</td>
<td>INTRODUCTION TO SCHOOL COUNSELING</td>
<td>4</td>
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<tr>
<td>PSYC 542</td>
<td>CAREER COUNSELING</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 544</td>
<td>COUNSELING THEORY AND TECHNIQUES</td>
<td>4</td>
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<tr>
<td>PSYC 547</td>
<td>ASSESSMENT: SCHOOL COUNSELING</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 548</td>
<td>COUNSELING CHILDREN AND ADOLESCENTS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 569</td>
<td>FAMILY SYSTEMS AND PARENT EDUCATION</td>
<td>4</td>
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<tr>
<td>PSYC 575</td>
<td>DSM TREATMENT ISSUES FOR COUNSELORS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 580</td>
<td>CONSULTATION IN THE COUNSELING PROFESSION</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 582</td>
<td>ADVANCED SCHOOL COUNSELING</td>
<td>4</td>
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<tr>
<td>PSYC 583</td>
<td>GROUP EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 584</td>
<td>GROUP THEORY</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 585</td>
<td>GROUP PROCESS IN COUNSELING</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 587</td>
<td>ADDICTIVE BEHAVIOR COUNSELING</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 588</td>
<td>CRISIS INTERVENT AND TRAUMA COUNSEL</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 590</td>
<td>DIVERSITY COUNSELING</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 594</td>
<td>PROFESSIONAL ISSUES IN SCHOOL COUNSELING</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 602</td>
<td>SCHOOL PSYC PORTFOLIO (1-6)</td>
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<tr>
<td>PSYC 694</td>
<td>PRACTICUM (1-8 must be repeated)</td>
<td>12</td>
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<tr>
<td>PSYC 697</td>
<td>INTERNSHIP IN PSYCHOLOGY (1-10 must be</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>repeated)</td>
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</tr>
</tbody>
</table>

Total Credits: 93

Student Learning Outcomes—students will

- assess community needs, design, implement and evaluate mental health programs and systems-Mental Health Counseling Emphasis;
- provide accurate assessment, diagnosis (where appropriate) and treatment planning for a diverse client population-Mental Health Counseling Emphasis;
- describe the ethical and legal considerations that govern the practice of mental health counseling-Mental Health Counseling Emphasis;
- utilize the American School Counseling Association’s National Model (a framework for school counseling programs) to develop an individual school’s comprehensive program -School Counseling Emphasis;
- describe and apply the counseling theories and techniques that have proven to be the most applicable to the K–12 school population—School Counseling Emphasis;
- describe and utilize the laws and ethics that govern the school counseling profession -School Counseling Emphasis.

Psychology Major, Bachelor of Arts (BA)

General Admissions Information for Psychology
High school students should have at least one year of algebra. Social science courses, including psychology and natural science courses such as biology and chemistry are also encouraged. Transfer students may be given credit for appropriate transfer courses in the major and for electives. Transfer credits will be limited to 20 lower division courses and no more than 30 transfer credits total can be applied toward the degree.

General Degree Completion Requirements for Psychology
Students who major in psychology but who transfer some lower division psychology coursework from other colleges/universities must complete at least 50 hours of upper division credits in the 70 credit psychology major. No more than 20 credits from online courses will be counted toward major requirements.

Notes:

- to declare psychology as a major, students must have a minimum cumulative GPA ≥2.0 and taken and passed PSYC 100 or its equivalent with a GPA ≥2.0.
- two years of a single high school foreign language or one year of a single college level foreign language is required.
- students must attain a grade ≥2.0 for each of the required courses: CSBS 320, PSYC 100, PSYC 309, PSYC 313, PSYC 395/PSYC 495, PSYC 398/PSYC 498 and PSYC 399/PSYC 499.

Capstone Course: the university capstone requirement can be met by the department capstone course, PSYC 490.

Required courses are designed to provide students with the foundations of the field. Through careful planning in the selection of cluster and elective courses, students may develop a program of study to prepare for application to graduate school programs or meet specific career goals in psychology-related business/human services occupations.

Required Prerequisite Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYC 100</td>
<td>GENERAL PSYCHOLOGY</td>
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Required Courses

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 309</td>
<td>SCIENTIFIC PRINCIPLES OF PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 313</td>
<td>RESEARCH METHODS IN PSYCHOLOGY</td>
<td>5</td>
</tr>
</tbody>
</table>

Required Focus Experience Courses—students choose from any combination of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 395/495</td>
<td>INTERNSHIP (Instructor’s permission required)</td>
</tr>
</tbody>
</table>
PSYC 398/498 SEMINAR IN PSYCHOLOGY
PSYC 399/499 DIRECTED STUDY (Instructor’s permission required.)

Required Cluster Credits—PSYC majors are required to take a specified number of courses from clusters A and B as follows:

Cluster A Core Course Requirements— at least four of the following 19-20
PSYC 301 THEORIES OF PERSONALITY
PSYC 302 ABNORMAL PSYCHOLOGY
PSYC 303 FOUNDATION OF PSYCHOTHERAPY
PSYC 305 CHILD AND ADOLESCENT DEVELOPMENT
or PSYC 306 ADULT DEVELOPMENT
PSYC 316 HUMAN MEMORY AND COGNITION
PSYC 324 CONDITIONING AND LEARNING
PSYC 340 EMOTION AND EMOTIONAL INTELLIGENCE
PSYC 381 SOCIAL PSYCHOLOGY
PSYC 420 BIOLOGICAL BASIS OF BEHAVIOR
PSYC 474 CULTURAL PSYCHOLOGY

Cluster B Applied/Lab and Speciality Course Requirements—at least three of the following 11-15
CSBS 321 COMPUTER AIDED DATA ANALYSIS
PSYC 314 TESTS AND MEASUREMENTS
PSYC 317 HEALTH PSYCHOLOGY
PSYC 318 COMPUTERIZATION RESEARCH TECHNIQUES IN PSYCHOLOGY
PSYC 323 DRUGS AND BEHAVIOR
PSYC 325 COGNITIVE AND BEHAVIOR CHANGE
PSYC 331 PSYCHOLOGY OF WOMEN
PSYC 359 HUMAN SEXUALITY
PSYC 421 CARE AND CUSTODY OF FEMALE OFFENDERS
PSYC 425 PSYCHOLOGY AND THE LEGAL SYSTEM
PSYC 427 INTIMATE RELATIONSHIPS
PSYC 430 HUMAN PSYCHOPHYSIOLOGY
PSYC 431 STRESS AND COPING
PSYC 433 COMPASSION FOCUSED THERAPY
PSYC 440 HAPPINESS AND POSITIVE PSYCHOLOGY
PSYC 450 TRAUMA: THEORY, ASSESSMENT AND TREATMENT
PSYC 452 SOCIAL INFLUENCE
PSYC 461 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
PSYC 470 CHILDHOOD PSYCHOPATHOLOGY AND TREATMENT
PSYC 481 PREJUDICE AND STEREOTYPING
PSYC 483 GROUP DYNAMICS
PSYC 496 EXPERIMENTAL COURSE
PSYC 497 WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR (may be counted as a cluster course or elective as approved by the department chair)

Electives 17
Note: courses used as electives in the major must come from the Cluster A or B course list above (those not used to meet the minimum cluster requirements). Students may also take PSYC 490 and PSYC 491 (by faculty invitation) toward the fulfillment of the elective credits.

PSYC 490 SENIOR CAPSTONE: THE TRADITION OF PSYCHOLOGY
PSYC 491 SENIOR THESIS

Total Credits 70-75

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

• develop ethical and evidence-derived decision-making;
• use APA style effectively in empirically based reports, literature reviews and theoretical papers;
• recognize and understand major perspectives of psychology;
• evaluate the appropriateness of design, statistical analyses and conclusions derived from psychological research;
• design and conduct studies to address psychological questions using appropriate research methods.

Psychology with Clinical Concentration, Master of Science (MS)

The clinical concentration is designed for students who are interested in becoming master’s-level mental health providers in private practice, mental health centers, hospitals or social service agencies, or who are pursuing pre-doctoral studies to support application to doctoral programs in clinical or counseling psychology.

Note: students must successfully complete PSYC 503, PSYC 522, PSYC 534, PSYC 537, PSYC 538, PSYC 539 during the first three quarters of enrollment in order to continue in the program without a significant delay or required remediation plan during the second year of study.

Required Core
PSYC 503 PROSEMINAR: SCIENTIFIC METHODS 4
PSYC 522 ADVANCED STATISTICS 5
PSYC 534 HUMAN NEUROPSYCHOLOGY 4
PSYC 537 ADVANCED PSYCHOPATHOLOGY 4
PSYC 538 RESEARCH TOPICS 1
PSYC 539 SEMINAR IN SPECIAL TOPICS (1-5) 2
PSYC 600 THESIS (1-15) 6
or PSYC 601 RESEARCH REPORT
PSYC 694 PRACTICUM (1-8 must be repeated) 16

Required Clinical Concentration Courses
PSYC 504 PROSEMINAR: LEARNING AND BEHAVIOR THERAPY 4
PSYC 508 PROFESSIONAL ISSUES 2
PSYC 551 FOUNDATION OF PSYCHOTHERAPY 5
PSYC 554 COGNITIVE ASSESSMENT 4
PSYC 555 CLINICAL PRACTICE IN COGNITIVE ASSESSMENT 3
PSYC 556 PERSONALITY AND BEHAVIORAL ASSESSMENT 5
PSYC 557 CLINICAL PRACTICE IN PERSONALITY AND BHAVIORAL ASSESSMENT 4
PSYC 694 PRACTICUM 1-8

Required Electives—chosen with an advisor in accord with the following elective course guidelines.
1. 400-level or graduate courses within psychology and related fields
2. Specific emphases such as alcohol and drug studies, interdisciplinary aging, diagnosis and treatment of children and adolescents, school psych issues, behavioral health, psychology of women, computerized research and analysis, positive psychology, business, children’s studies, technical writing, etc.
3. Specific courses of interest to the student in related relevant departments (e.g. PSYC, SOWK)
4. EWU weekend college courses

<table>
<thead>
<tr>
<th>Required Electives—additional graduate courses are offered within the department and may be taken by students in any program of study—with the appropriate Program Director’s approval, the following type of courses may be taken as part of the student’s graduate program of study.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 400-level or graduate courses within psychology;</td>
</tr>
<tr>
<td>2. Specific emphases such as addiction studies, interdisciplinary aging, diagnosis and treatment of children and adolescents, school psychology issues, behavioral health, computerized research and analysis, forensic psychology, physiological psychology, positive psychology or others;</td>
</tr>
<tr>
<td>3. Specific courses in related, relevant departments, PSYC or SOWK with permission of the instructor and program director;</td>
</tr>
<tr>
<td>4. EWU weekend college courses.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Credits</th>
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</thead>
<tbody>
<tr>
<td>68</td>
</tr>
</tbody>
</table>

**Student Learning Outcomes—students will**
- Comprehend the discourse of psychology and communicate using the conventions of the discipline;
- Be familiar with the historical context in which important theories in psychology were developed;
- Develop expertise in the broad science of psychology, including advanced knowledge in research methods, statistics, biological psychology, multicultural issues, history and systems of psychology, and human learning;
- Pose research questions and devise research strategies to answer them, including the use of quantitative or qualitative methods;
- Gather information from sources and present persuasive arguments, learn the primary ethical principles of psychologists and recognize basic ethical issues and violations and be guided accordingly.

**Psychology with General/Experimental Concentration, Master of Science (MS)**

The concentration in general/experimental psychology is designed to prepare students for research or teaching in psychology. Methodology and both basic and applied research are emphasized. Students are prepared to enter doctoral programs or to seek employment in appropriate master’s-level positions. Curricula plans, in addition to the 42 credit hours of core courses, should include a minimum of 26 credits of elective courses chosen with an advisor in accord with the elective courses guidelines shown below. Students particularly interested in acquiring college-level instruction skills should consider courses from the Department of Education.

Note: students must successfully complete PSYC 503, PSYC 522, PSYC 534, PSYC 537, PSYC 538, PSYC 539 during the first three quarters of enrollment in order to continue in the program without a significant delay or required remediation plan during the second year of study.

**Required Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 503</td>
<td>PROSEMINAR: SCIENTIFIC METHODS</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 522</td>
<td>ADVANCED STATISTICS</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 534</td>
<td>HUMAN NEUROPSYCHOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 537</td>
<td>ADVANCED PSYCHOPATHOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 538</td>
<td>RESEARCH TOPICS</td>
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</tr>
<tr>
<td>PSYC 539</td>
<td>SEMINAR IN SPECIAL TOPICS (1-5)</td>
<td>2</td>
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<tr>
<td>PSYC 600</td>
<td>THESIS (1-15)</td>
<td>6</td>
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<tr>
<td>or PSYC 601</td>
<td>RESEARCH REPORT</td>
<td></td>
</tr>
<tr>
<td>PSYC 694</td>
<td>PRACTICUM (1-8 must be repeated)</td>
<td>16</td>
</tr>
</tbody>
</table>

**Psychology, Educational Specialist in School Psychology (EdS)**

Susan Ruby (sruby@ewu.edu), Program Director
509.359.6050

Prerequisites: A bachelor’s degree in psychology or its equivalent is required. Successful completion of undergraduate coursework in child or life-span development, learning, research, measurement and statistics is required. Faculty will evaluate each applicant on an individual basis to determine prerequisites needs.

Note: successful completion of the National School Psychology Certification Examination and an oral examination that reviews the portfolio project and contents is required.

**Admission Requirements/Preparation**

Early consideration deadline for completed applications is January 15. All application materials must be received by March 1 for consideration of admission for a fall start. Students ordinarily begin their graduate studies fall quarter. Admission to begin the program in winter or spring is discouraged.

1. Must have a GPA ≥3.0 in the last 90 quarter or 60 semester-graded credits. The Graduate Admission Committee may recommend a limited number of other students with a lower GPA to the Dean of
Graduate Studies for admission based upon standard test scores, intervening experiences and other relevant factors.

2. Must meet the requirements of the Graduate School.

3. Must submit application to the Department of Psychology for the School Psychology Program, vita/ résumé, and a letter of introduction and intent (not to exceed 3 pages) for admission to the School Psychology EdS.

4. Must send three letters of recommendation to the Department of Psychology.

5. Must have a bachelor’s degree in psychology or its equivalent. Ordinarily, the applicant’s transcript must show evidence of courses in the following areas: scientific principles of psychology, inferential statistics, learning and personality theory, abnormal psychology, life span development, physiological psychology, history and systems in psychology and general/experimental psychology. Accepted applicants whose transcripts are lacking some areas of proficiency may be asked to complete appropriate courses prior to full acceptance to the program.

6. Must submit scores for the Graduate Record General Examination (GRE) Test. The GRE must have been taken no more than five years before the date of application.

7. It is expected that a student complete all of the requirements for admission to the Graduate School and the Department of Psychology before registering for core classes.

**School Psychology:** early consideration January 15, deadline March 1, (2) Graduate Studies Office applications, (1) department application, (2) official transcripts, (3) letters of recommendation, (1) cover letter/personal statement, (1) résumé/vita, GRE scores (within five years of application)

Applicants may be invited for a personal interview once applications have been reviewed.

Students accepted will be notified of a general information meeting held preceding the beginning of their first quarter, to provide orientation to institutional and departmental procedures and to provide information about registration.

This program is fully approved by the National Association of School Psychologists (NASP). We adhere to a scientist-practitioner model that prepares students for practice as a school psychologist. Candidates graduating from our program are prepared to receive a Residency Certificate in School Psychology from Washington’s Office of Superintendent of Public Instruction (OSPI) and to become nationally certified school psychologists (NCSP). Coursework, practica and internship are aligned with state and national certification and training standards. Specific areas of training include student and program evaluation (i.e., measurement principles); development of academic and social-behavioral intervention plans (i.e., instructional and behavioral analysis, consultation and counseling); and research (i.e., methods and statistics). The program adopts a preventive focus by training candidates to assess and intervene at the school-wide and at-risk group level.

Knowledge and skills are developed through integrated coursework, field experiences and internship. The program duration is three years.

**Required Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
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<tr>
<td>PSYC 505</td>
<td>APPLIED LEARNING THEORY AND BEHAVIOR MODIFICATION</td>
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<tr>
<td>PSYC 507</td>
<td>HUMAN DEVELOPMENT: RESEARCH, THEORIES AND APPLICATIONS</td>
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<td>PSYC 510</td>
<td>PROFESSIONAL SCHOOL PSYCHOLOGY I</td>
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<tr>
<td>PSYC 511</td>
<td>PROFESSIONAL SCHOOL PSYCHOLOGY II</td>
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<td>PROFESSIONAL SCHOOL PSYCHOLOGY III</td>
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</tr>
<tr>
<td>PSYC 523</td>
<td>MULTI-TIERED SYSTEMS OF SUPPORT</td>
<td>4</td>
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<td>PSYC 526</td>
<td>ACADEMIC ASSESSMENT FOR SCHOOL PSYCHOLOGY</td>
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<td>PSYC 531</td>
<td>PSYCHOEDUCATIONAL GROUPS</td>
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<tr>
<td>PSYC 532</td>
<td>RESEARCH AND STATISTICS GROUP DESIGN</td>
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<td>PSYC 533</td>
<td>INTERVENTION AND PROGRAM EVALUATION</td>
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<td>PSYC 543</td>
<td>COUNSELING THEORIES AND SCHOOL BASED MENTAL HEALTH INTERVENTIONS</td>
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<td>PSYC 553</td>
<td>SOCIAL, EMOTIONAL AND BEHAVIORIAL ASSESSMENT OF CHILDREN AND ADOLESCENTS</td>
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<td>PSYC 558</td>
<td>SCHOOL PSYCHOLOGY PRACTICUM (1-8 must be repeated)</td>
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<tr>
<td>PSYC 559</td>
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<td>PSYC 567</td>
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<td>PSYC 602</td>
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<td>PSYC 695</td>
<td>INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6 must be repeated)</td>
<td>15</td>
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</table>

**Total Credits:** 104

**Student Learning Outcomes—students will**

- know the history and foundations of school psychology; multiple service models and methods; ethical, legal and professional standards; and other factors related to professional identity and effective practice as school psychologists;
- know the varied models and methods of assessment and data collection for identifying strengths and needs, developing effective services and programs and measuring progress and outcomes;
- know the varied models and strategies of consultation, collaboration and communication applicable to individuals, families, groups and systems and methods to promote effective implementation of services;
- understand school and systems structure, organization and theory related to evidence-based practice;
- use data based-decision making to design, implement and evaluate academic, social, emotional and behavioral programs for students at all levels of need.

**Psychology, Educational Specialist in School Psychology Respecialization (EdS) (Online)**

Jamie Chafin (jchaffin@ewu.edu), Program Director
509.359.4736

This online-hybrid distance-learning program is designed for working professionals with a master’s or other graduate degrees or a bachelor’s degree and professional experience. It is offered through online
coursework with synchronous and in-person training requirements. Appropriate candidates for the program are educators or those working in an education, counseling or psychology-related field with several years of experience.

Admission Requirements/Preparation

Early consideration deadline for completed applications is January 15. All application materials must be received by March 1 for consideration of admission for a summer start. The application file must be complete by March 15 for you to be considered for an interview. All interviews will be conducted via video conferencing. The equipment needed for the interview consists of a web-camera (can be internal to your laptop or external), a headset with a microphone and a wired Internet connection (wireless tends to be slower and could impact either the video or audio component of the transmission).

To be considered for the program, students:

1. must have a GPA ≥ 3.0 in the last 90 quarter or 60 semester-graded credits. The Graduate Admission Committee may recommend a limited number of other students with a lower GPA to the Dean of Graduate Programs for admission based upon standard test scores, intervening experiences and other relevant factors;
2. must meet the requirements of the Graduate School;
3. must submit program-specific application to the Department of Psychology for the Ed.S in School Psychology Online Program, vitae/ résumé, and a letter of introduction and intent (not to exceed three pages) for admission to the program;
4. must send three letters of recommendation to the Department of Psychology on program specific reference form;
5. must have completed either: (a) a master’s or other graduate degree in psychology, education or a closely related field or its equivalent or (b) a bachelor’s degree and at least three years of full-time experience in school or (c) a bachelor’s degree and at least five years of relevant professional experience in a closely related field;
6. students with bachelor’s degrees must submit scores for the Graduate Record General Examination (GRE) Test—students with master’s or other graduate degrees do not need to submit GRE scores.
7. it is expected that a student complete all of the requirements for admission to the Graduate School and the Department of Psychology before registering for classes.

We adhere to a scientist-practitioner model that prepares students for practice as a school psychologist. Candidates completing our program are prepared to receive a Residency Educational Staff Associate (ESA) Certificate in School Psychology from Washington’s Office of Superintendent of Public Instruction (OSPI). Students are encouraged to seek national certification through preparation of individual portfolios. Coursework, practica, internship, and portfolio expectations are aligned with state and national training standards. Specific areas of training include student and program evaluation (measurement principles); development of academic and social-behavioral intervention plans (e.g., instructional and behavioral analysis, consultation and home-school collaboration); and research (methods and statistics). The program adopts a preventive focus by training candidates to assess and intervene at the school-wide and at-risk group level. Knowledge and skills are developed through integrated coursework, field experiences and internship. The program duration is two full calendar years, beginning in summer.

Technology requirements for participation: High bandwidth required; access should be through a direct Internet connection (not wireless); computer and browser requirements should follow program recommendations, webcam; headset with microphone and access to a scanner or printer that scans. Full participation throughout the web-conferencing activities and inter-residence training is required to participate.

Note: successful completion of the National School Psychology Certification Examination and an oral examination that reviews the portfolio project and contents is required.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PSYC 505</td>
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<td>PSYC 511</td>
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<td>PROFESSIONAL SCHOOL PSYCHOLOGY III</td>
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<td>PSYC 513</td>
<td>ADVANCED CHILD AND ADOLESCENT DEVELOPMENT</td>
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<td>PSYC 523</td>
<td>MULTI-CHILD AND ADOLESCENT DEVELOPMENT</td>
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<td>PSYC 526</td>
<td>ACADEMIC-TIERED SYSTEMS OF SUPPORT</td>
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<td>PSYC 531</td>
<td>PSYCHOEDUCATIONAL GROUPS</td>
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<td>RESEARCH AND STATISTICS GROUP DESIGN</td>
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<td>PSYC 533</td>
<td>INTERVENTION AND PROGRAM EVALUATION</td>
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<td>PSYC 534</td>
<td>HUMAN NEUROPSYCHOLOGY</td>
<td>4</td>
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<td>PSYC 543</td>
<td>COUNSELING THEORIES AND SCHOOL BASED MENTAL HEALTH INTERVENTIONS</td>
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<tr>
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<td>SCHOOL PSYC PORTFOLIO (1-6-5)</td>
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<td>INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6 must be repeated)</td>
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</table>

Total Credits 104

Student Learning Outcomes—students will

- know the history and foundations of school psychology; multiple service models and methods; ethical, legal and professional standards; and other factors related to professional identity and effective practice as school psychologists;
- know the varied models and methods of assessment and data collection for identifying strengths and needs, developing effective services and programs, and measuring progress and outcomes;
- know the varied models and strategies of consultation, collaboration and communication applicable to individuals, families, groups and systems and methods to promote effective implementation of services;
- understand school and systems structure, organization and theory related
• to evidence-based practice;
• use data based-decision making to design, implement and evaluate academic, social, emotional and behavioral programs for students at all levels of need.

**Psychology Minor**

The psychology minor requires PSYC 100 plus 15 credits of coursework taken from the following list. The courses are to be approved by the department chair. No more than 10 credits from another institution can be transferred toward the minor.

**Notes:**

• students must have an overall grade point average ≥2.0 in courses applying toward this minor in order to graduate with this minor;
• no more than 10 credits from another institution may be transferred toward the minor.

**Required**

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<tr>
<th>Course</th>
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<th>Credits</th>
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<td>PSYC 100</td>
<td>GENERAL PSYCHOLOGY</td>
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**Electives—choose from the following list**

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<th>Course</th>
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<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
</tr>
<tr>
<td>CSBS 321</td>
<td>COMPUTER AIDED DATA ANALYSIS</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>THEORIES OF PERSONALITY</td>
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<tr>
<td>PSYC 302</td>
<td>ABNORMAL PSYCHOLOGY</td>
</tr>
<tr>
<td>PSYC 303</td>
<td>FOUNDATION OF PSYCHOTHERAPY</td>
</tr>
<tr>
<td>PSYC 305</td>
<td>CHILD AND ADOLESCENT DEVELOPMENT</td>
</tr>
<tr>
<td>or PSYC 306</td>
<td>ADULT DEVELOPMENT</td>
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<tr>
<td>PSYC 309</td>
<td>SCIENTIFIC PRINCIPLES OF PSYCHOLOGY</td>
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<tr>
<td>PSYC 314</td>
<td>TESTS AND MEASUREMENTS</td>
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<tr>
<td>PSYC 316</td>
<td>HUMAN MEMORY AND COGNITION</td>
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<td>PSYC 317</td>
<td>HEALTH PSYCHOLOGY</td>
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<tr>
<td>PSYC 318</td>
<td>COMPUTERIZATION RESEARCH TECHNIQUES IN PSYCHOLOGY</td>
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<tr>
<td>PSYC 323</td>
<td>DRUGS AND BEHAVIOR</td>
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<tr>
<td>PSYC 324</td>
<td>CONDITIONING AND LEARNING</td>
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<td>PSYC 325</td>
<td>COGNITIVE AND BEHAVIOR CHANGE</td>
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<td>PSYC 331</td>
<td>PSYCHOLOGY OF WOMEN</td>
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<td>PSYC 340</td>
<td>EMOTION AND EMOTIONAL INTELLIGENCE</td>
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<td>PSYC 359</td>
<td>HUMAN SEXUALITY</td>
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<td>PSYC 381</td>
<td>SOCIAL PSYCHOLOGY</td>
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<td>PSYC 398</td>
<td>SEMINAR IN PSYCHOLOGY</td>
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<td>PSYC 399</td>
<td>DIRECTED STUDY</td>
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<td>or PSYC 499</td>
<td>DIRECTED STUDY</td>
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<td>PSYC 420</td>
<td>BIOLOGICAL BASIS OF BEHAVIOR</td>
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<tr>
<td>PSYC 421</td>
<td>CARE AND CUSTODY OF FEMALE OFFENDERS</td>
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<td>PSYC 425</td>
<td>PSYCHOLOGY AND THE LEGAL SYSTEM</td>
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<td>PSYC 427</td>
<td>INTIMATE RELATIONSHIPS</td>
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<td>PSYC 430</td>
<td>HUMAN PSYCHOPHYSIOLOGY</td>
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<td>PSYC 431</td>
<td>STRESS AND COPING</td>
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<td>COMPASSION FOCUSED THERAPY</td>
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<td>PSYC 440</td>
<td>HAPPINESS AND POSITIVE PSYCHOLOGY</td>
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<td>PSYC 452</td>
<td>SOCIAL INFLUENCE</td>
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<td>PSYC 470</td>
<td>CHILDHOOD PSYCHOPATHOLOGY AND TREATMENT</td>
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<td>PSYC 474</td>
<td>CULTURAL PSYCHOLOGY</td>
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<td>PSYC 481</td>
<td>PREJUDICE AND STEREOTYPING</td>
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<td>PSYC 483</td>
<td>GROUP DYNAMICS</td>
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**Total Credits**

20
Race and Cultural Studies

Elisa Facio, Program Director
department page (https://www.ewu.edu/css/programs/race-and-culture-studies)
203 Monroe Hall
509.359.2404

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
• Race and Culture Studies (p. 352)

Undergraduate Minors
• Race and Culture Studies Minor (p. 353)

Undergraduate Program
The mission of the academic major in the study of Race and Culture is to contribute to the overall mission of Eastern Washington University “to prepare broadly educated, technologically proficient and highly productive citizens to obtain a meaningful career, to enjoy enriched lives and to make contributions to a culturally diverse society.” More specifically, RCST provides Eastern Washington University students a comprehensive interdisciplinary curriculum that contributes to their understanding and appreciation of the experiences, concerns and perspectives of the three major historically marginalized populations, (African Americans, Chicanos/Latinos and Native Americans) in the United States.

Central Core Emphasis of the RCST Major
Students majoring in RCST enroll in a core curriculum using interdisciplinary and comparative perspectives. RCST majors study the history, culture, social-economics and political realities of these communities. More specifically, RCST majors gain insights about international connections relevant to these groups as well as participate in research and community based study to augment classroom learning.

RCST Interdisciplinary Nature
The core curriculum is interdisciplinary in nature and draws concepts, constructs, theories, and perspectives from an array of disciplinary areas including: history, anthropology, sociology political science, social work and the arts.

Career Opportunities with a RCST Major
Many professional areas recognize the need to have employees who are aware of and sensitive to the racial and cultural climate of contemporary society. They likewise recognize the rapidly changing racial and cultural demographic diversity taking places throughout the U.S. Employers are looking for professionals who bring with them the knowledge and skills necessary to contribute to a productive work environment that is racially and culturally diverse. Underlying this effort are the many companies and agencies hiring diversity officers/managers to provide racial, ethnic and cultural training to assist in conflict resolution and offer advice on issues of race, ethnicity and culture in the work setting.

Professional fields open to RCST majors include, but are not limited to, law, politics, education, business, urban/regional planning, counseling, social work, health/medicine and public institutions such as schools, libraries and museums. As the contemporary job market becomes more competitive, employers are looking for individuals who possess extraordinary skills to deal with a diverse labor setting and markets.

A major in RCST provides employers and professionals the necessary skills and insights to be a successful in a changing contemporary society.

Grade Requirements
In order to graduate with a BA in Race and Culture Studies students must have a minimum grade point ≥2.0 and all courses completed towards the major must be ≥2.0.

Race and Culture Studies Major, Bachelor of Arts (BA)

Required Foundation Courses

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>RCST 101</td>
<td>AN INTRODUCTION TO THE STUDY OF RACE AND CULTURE</td>
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<tr>
<td>RCST 202</td>
<td>RACE, PRIVILEGE AND POWER</td>
<td>5</td>
</tr>
<tr>
<td>RCST 304</td>
<td>LIBERATION AND SOCIAL CHANGE</td>
<td>5</td>
</tr>
<tr>
<td>RCST 330</td>
<td>RESEARCHING RACE AND CULTURE</td>
<td>5</td>
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<td>RCST 430</td>
<td>RESEARCH METHODOLOGIES IN RACE AND CULTURE STUDIES</td>
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Required—choose two from the following

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<tr>
<td>AAST 101</td>
<td>INTRODUCTION TO AFRICANA STUDIES</td>
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<tr>
<td>CHST 101</td>
<td>INTRODUCTION TO CHICANO CULTURE</td>
</tr>
<tr>
<td>or ANTH 161</td>
<td>INTRODUCTION TO CHICANO CULTURE</td>
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<tr>
<td>IDST 101</td>
<td>INTRODUCTION TO INDIAN STUDIES</td>
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Required Capstone

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<tbody>
<tr>
<td>RCST 490</td>
<td>SENIOR CAPSTONE IN RACE AND CULTURE STUDIES</td>
</tr>
<tr>
<td>or RCST 491</td>
<td>SENIOR THESIS IN RACE AND CULTURE STUDIES</td>
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</table>

Degree Options—choose two of the three emphasis areas for the B.A. 40

Africana Studies Emphasis Area

Required

<table>
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<th>Title</th>
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<tr>
<td>AAST 215</td>
<td>EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877</td>
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<td>or HIST 215</td>
<td>EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877</td>
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<tr>
<td>or HONS 215</td>
<td>EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877</td>
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Choose from the following

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<tr>
<td>AAST 214</td>
<td>AFRICAN AMERICAN CULTURE AND EXPRESSIONS</td>
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<tr>
<td>or HONS 214</td>
<td>AFRICAN AMERICAN CULTURE AND EXPRESSIONS</td>
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<td>or HUMN 214</td>
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<tr>
<td>AAST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
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<td>or HIST 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
</tr>
<tr>
<td>or HONS 220</td>
<td>AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT</td>
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</table>
### Race and Culture Studies Minor (80 credits)

The mission of the academic minor in the Study of Race and Culture is to contribute to the overall mission of Eastern Washington University “to prepare broadly educated, technologically proficient and highly productive citizens to obtain meaningful career, to enjoy enriched lives and to make contributions to a culturally diverse society.” More specifically, RCST provides Eastern Washington University students a comprehensive interdisciplinary curriculum that contributes to their understanding and appreciation of the experiences, concerns and perspectives of the three major historically marginalized populations, (African Americans, Chicanos/Latinos and Native Americans) in the United States.

#### Central Core Emphasis of the RCST Minor

<table>
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<tbody>
<tr>
<td>AAST 301</td>
<td>HARLEM RENAISSANCE: RECONSTRUCTION TO 1930</td>
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<td>AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA</td>
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<td>AAST 331</td>
<td>HISTORY AND DYNAMICS OF U.S. SLAVERY</td>
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<td>ECONOMICS OF POVERTY AND DISCRIMINATION</td>
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<tr>
<td>or WMST 426</td>
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<tr>
<td>AAST 430</td>
<td>AFRICAN AMERICAN WOMEN’S HISTORY</td>
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<tr>
<td>or WMST 430</td>
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<td>AAST 435</td>
<td>NEGRO SPIRITUALS</td>
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<td>AFRICAN STUDIES INTERNSHIP</td>
</tr>
<tr>
<td>AAST 499</td>
<td>DIRECTED STUDY</td>
</tr>
<tr>
<td>ART 310</td>
<td>WORLD ART</td>
</tr>
</tbody>
</table>

**Chicano Studies Emphasis Area**

- **Required**
  - CHST 218  CHICANO HISTORY
  - or HIST 218  CHICANO HISTORY
  - CHST 230  CHICANAS AND LATINAS IN THE U.S.

- **Choose from the following**
  - CHST 300  SURVEY OF CHICANO LITERATURE
  - CHST 310  LATINAS/OS IN THE U.S. MEDIA
  - CHST 320  CHICANO-LATINO POLITICS IN AMERICA
  - CHST 330  LATINO IMMIGRATION TO THE U.S.
  - CHST 331  LATINO FAMILY IN THE U.S.
  - CHST 340  LATINA/O COMMUNITIES IN THE U.S.; FIELD RESEARCH IN CHICANA/O, LATINA/O STUDIES
  - CHST 495  INTERNSHIP/PRACTICUM
  - CHST 498  SEMINAR
  - CHST 499  DIRECTED STUDY

**Indian Studies Emphasis Area**

Note: only one Salish language class IDST 201, IDST 202 and IDST 203 can count here.

- **Required**
  - IDST 321  CONTEMPORARY INDIAN ISSUES

- **Choose from the following**
  - IDST 201  SALISH LANGUAGE AND CULTURE I
  - IDST 202  SALISH LANGUAGE AND CULTURE II
  - IDST 203  SALISH LANGUAGE AND CULTURE III
  - IDST 316  AMERICAN INDIAN HISTORY I
  - or HIST 316  AMERICAN INDIAN HISTORY I

- IDST 317  AMERICAN INDIAN HISTORY II
- or HIST 317  AMERICAN INDIAN HISTORY II
- IDST 325  NATIVE AMERICAN WRITING
- IDST 330  INDIAN WARS: PAST AND PRESENT
- IDST 338  AMERICAN INDIAN CINEMA
- IDST 380  SURVEY OF NATIVE AMERICAN LITERATURE
- or ENGL 380  SURVEY OF NATIVE AMERICAN LITERATURE
- IDST 420  READINGS IN DECOLONIZATION
- or CHST 420  READINGS IN DECOLONIZATION
- IDST 421  FEDERAL INDIAN LAW AND POLICY I
- or POLI 421  FEDERAL INDIAN LAW AND POLICY I
- IDST 422  FEDERAL INDIAN LAW AND POLICY II
- or POLI 422  FEDERAL INDIAN LAW AND POLICY II
- IDST 477  CONTEMPORARY INDIGENOUS WOMEN
- or WMST 477  CONTEMPORARY INDIGENOUS WOMEN
- IDST 480  NATIVE AMERICAN ORAL TRADITION
- or HIST 480  NATIVE AMERICAN ORAL TRADITION
- IDST 485  INDIGENOUS EDUCATION
- or EDUC 485  INDIGENOUS EDUCATION
- IDST 495  INDIAN STUDIES INTERNSHIP
- IDST 497  WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR
- IDST 498  SEMINAR
- IDST 499  DIRECTED STUDY

**Student Learning Objectives—students will**

- differentiate between the concepts of racism, prejudice and discrimination; and, understand how lives are situated in or impacted by these concepts;
- demonstrate understanding of what it means to be a culturally competent individual/human being;
- demonstrate understanding of the role that activism and struggle have played in building the African American, Chicano/a and American Indian consciousness and empowerment.

### Race and Culture Studies Minor

**Total Credits**: 80

*For information on General Education, see Undergraduate Degree (p. 39).*
communities. More specifically, RCST minors gain insights about international connections relevant to these groups as well as participate in research and community based study to augment classroom learning.

Note:

- in order to graduate with a minor in RCST students must have a minimum grade point ≥2.0 and all courses completed towards the minor must be ≥2.0.

**Required Foundation Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCST 101</td>
<td>AN INTRODUCTION TO THE STUDY OF RACE AND CULTURE</td>
<td>5</td>
</tr>
<tr>
<td>RCST 202</td>
<td>RACE, PRIVILEGE AND POWER</td>
<td>5</td>
</tr>
<tr>
<td>RCST 304</td>
<td>LIBERATION AND SOCIAL CHANGE</td>
<td>5</td>
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</table>

**Choose one course from each of following three programs** 3-15

### Africana Studies Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>AAST 301</td>
<td>HARLEM RENAISSANCE: RECONSTRUCTION TO 1930</td>
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### Chicano Studies Program

<table>
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<tr>
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<tbody>
<tr>
<td>CHST 300</td>
<td>SURVEY OF CHICANO LITERATURE</td>
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<tr>
<td>CHST 310</td>
<td>LATINAS/OS IN THE U.S. MEDIA</td>
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### Indian Studies Program

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>IDST 316</td>
<td>AMERICAN INDIAN HISTORY I</td>
</tr>
</tbody>
</table>
Social Studies

Kathleen Huttenmaier, (khuttenmaier@ewu.edu) Director
department page (https://www.ewu.edu/css/programs/social-studies)
113 Reid
509.359.4824

Faculty
Varies.

Undergraduate Degrees

Bachelor of Arts in Education (BAE)
• Social Studies Elementary/Secondary (p. 355)

Teacher Certification/Add-on Endorsements
• Social Studies/Add-on Endorsement (p. 356)

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Social Studies Elementary/Secondary Major, Bachelor of Arts in Education (BAE)

Students may choose the elementary or secondary BAE.

Notes:
• see the Education Department for prerequisites, core requirements and additional SLOs;
• this major requires a grade of ≥2.5 in all coursework done in the major at Eastern;
• students must complete at least 15 credits of this major at Eastern Washington University.

The Elementary major does not meet a state of Washington endorsement.

Required Elementary Education Core

30–hour multicultural education field requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ART 390</td>
<td>ART IN THE ELEMENTARY SCHOOL</td>
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<tr>
<td>EDUC 200 &amp; EDUC 303 &amp; EDUC 308</td>
<td>ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)</td>
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<td>EDUC 201</td>
<td>INTRODUCTION TO EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 304</td>
<td>INTRODUCTION TO ELEMENTARY READING</td>
<td>3</td>
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<tr>
<td>EDUC 310</td>
<td>LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL</td>
<td>4</td>
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</tbody>
</table>

EDUC 338 & EDUC 339 | LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently) | 9 |
| EDUC 420 | ADMISSION TO PROFESSIONAL CANDIDACY | 1 |
| EDUC 423 | ELEMENTARY STUDENT TEACHING K-8 | 15 |
| MATH 212 | MATHEMATICS FOR ELEMENTARY TEACHERS II | 5 |
| MTED 390 | METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS | 5 |
| MUSC 450 | INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES | 3 |
| PHED 390 | HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS | 3 |
| PSYC 304 | EDUCATIONAL PSYCHOLOGY | 5 |
| SPED 363 | INTRODUCTION TO SPECIAL EDUCATION | 4 |

Required Social Studies/Elementary Courses

ANTH 101 or SOCI 320 or SOCI 321 or WMST 321 | CULTURAL ANTHROPOLOGY or RACE AND ETHNIC RELATIONS: GLOBAL PERSPECTIVES or SEX AND GENDER or SEX AND GENDER | 5 |
| ECON 100 or ECON 200 | GENERAL EDUCATION ECONOMICS or INTRODUCTION TO MICROECONOMICS | 5 |
| GEOF 101 or GEOF 301 | FUNDAMENTALS OF HUMAN GEOGRAPHY or HUMAN GEOGRAPHY | 5 |
| GEOF 230 | WORLD REGIONAL GEOGRAPHY | 5 |
| HIST 104 or HIST 365 | EAST ASIA: TRADITION AND TRANSFORMATION or LATIN AMERICAN HISTORY | 5 |
| HIST 105 | WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY | 5 |
| HIST 106 or HIST 306 | WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT or MODERN EUROPE | 5 |
| HIST 303 | U.S. HISTORY 1607-1877 | 5 |
| HIST 304 | U.S. HISTORY 1877-PRESENT | 5 |
| HIST 438 | PEACE, VIOLENCE AND CULTURE | 5 |
| HIST 499 | DIRECTED STUDY | 1 |
| POLI 100 | MODERN GOVERNMENT IN AMERICAN CONTEXT | 5 |
| SOST 490 | SENIOR CAPSTONE: SOCIAL STUDIES IN THE PUBLIC SCHOOLS | 4 |

Total Credits 130

The Secondary major satisfies the endorsement for grades 5-12.

Notes:
• this major requires a grade of ≥2.5 in all coursework done in the major at Eastern;
• students must complete at least 15 credits of this major at Eastern Washington University;
• social studies/secondary carries an endorsement in both social studies and history.
alternative required courses may be used if pre-approved by the coordinator of the social studies education program.

although this major does not require a minor, it is suggested that majors take minors outside the discipline of social studies education and that these minors coincide with endorsements for teacher certification in disciplines such as English, mathematics, or the physical or biological sciences.

Required Secondary Education Core
30-hour multicultural education field requirement

EDUC 200 ADMISSION TO TEACHER EDUCATION 7
& EDUC 303 and FOUNDATIONS OF ASSESSMENT
& EDUC 309 and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)

EDUC 201 INTRODUCTION TO EDUCATION 3
EDUC 341 SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT 4
EDUC 413 CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES 4

EDUC 420 ADMISSION TO PROFESSIONAL CANDIDACY 1
EDUC 426 SECONDARY STUDENT TEACHING 7-12 15
PSYC 304 EDUCATIONAL PSYCHOLOGY 5
SPED 363 INTRODUCTION TO SPECIAL EDUCATION 4

Required Social Studies/Secondary Courses

ANTH 101 CULTURAL ANTHROPOLOGY 5
or SOCI 320 RACE AND ETHNIC RELATIONS: GLOBAL PERSPECTIVES 5
or SOCI 321 SEX AND GENDER 5
or WMST 321 SEX AND GENDER 5
ECON 100 GENERAL EDUCATION ECONOMICS 5
or ECON 200 INTRODUCTION TO MICROECONOMICS 5
GEOG 100 FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT 5
or GEOG 301 HUMAN GEOGRAPHY 5
GEOG 230 WORLD REGIONAL GEOGRAPHY 5
HIST 104 EAST ASIA: TRADITION AND TRANSFORMATION 5
HIST 105 WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY 5
or HIST 106 WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT 5
or HIST 306 MODERN EUROPE 5
HIST 301 HISTORY OF THE PRESENT (or Diplomatic History elective) 5
HIST 303 U.S. HISTORY 1607-1877 5
HIST 304 U.S. HISTORY 1877-PRESENT 5
HIST 365 LATIN AMERICAN HISTORY (or Latin American History elective) 5
HIST 483 HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST 5
POLI 100 MODERN GOVERNMENT IN AMERICAN CONTEXT 5
SOST 390 SOC STUDIES IN SEC SCHOOL 4
SOST 490 SENIOR CAPSTONE: SOCIAL STUDIES IN THE PUBLIC SCHOOLS 4

Electives 8

One upper division non-U. S. History elective (4)
One upper division U. S. History elective (4)

Total Credits 119

For information on General Education, see Undergraduate Degree (p. 39).

Social Studies/Add-on Endorsement

For students who currently possess a Washington State Teaching Certificate.

Also, this constitutes a primary endorsement for those possessing a BA in one of the Social Studies.

This add-on satisfies the endorsement for grades 5–12.

Note:

• this add-on endorsement requires a grade ≥2.5 in all coursework done in the add-on at Eastern.

Required Courses
Select one of the following:

ANTH 101 CULTURAL ANTHROPOLOGY 5
SOC 301 SEX AND GENDER 5
or WMST 321 SEX AND GENDER 5

ECON 100 GENERAL EDUCATION ECONOMICS 5
or ECON 200 INTRODUCTION TO MICROECONOMICS 5
GEOG 100 FUNDAMENTALS OF HUMAN GEOGRAPHY 5
or GEOG 301 HUMAN GEOGRAPHY 5
GEOG 230 WORLD REGIONAL GEOGRAPHY 5
HIST 104 EAST ASIA: TRADITION AND TRANSFORMATION 5
or HIST 365 LATIN AMERICAN HISTORY 5
HIST 105 WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY 5
or HIST 306 MODERN EUROPE 5
HIST 301 HISTORY OF THE PRESENT (or Diplomatic History elective) 5
HIST 303 U.S. HISTORY 1607-1877 5
HIST 304 U.S. HISTORY 1877-PRESENT 5
HIST 303 U.S. HISTORY 1607-1877 5
HIST 304 U.S. HISTORY 1877-PRESENT 5

One upper division non-U. S. History elective (4)
One upper division U. S. History elective (4)

Total Credits 119

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

Note: see Education for additional SLOs.

• understand chronology and cause-and-effect relationships in U.S., world and Washington state history;
• understand the core principles of U.S. democracy and understand the rights and responsibilities of citizenship;
• understand major developments, eras and turning points in U.S., world and Washington state history;
• explain the spatial arrangements of people, places and environments using maps, charts and other tools;
• use sources of information such as historical documents and artifacts to investigate and understand historic occurrences;
• understand monetary systems, consequences of economic choices and influence of government policies upon the economy.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 483</td>
<td>HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST</td>
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<tr>
<td>HIST 499</td>
<td>DIRECTED STUDY</td>
<td>1</td>
</tr>
<tr>
<td>POLI 100</td>
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<td>5</td>
</tr>
<tr>
<td>SOST 390</td>
<td>SOC STUDIES IN SEC SCHOOL</td>
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<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>
Social Work

Martha Raske (mraske@ewu.edu), Chair and Director
509.359.6474

Sharon Bowland (sbowland@ewu.edu), MSW Program Director
509.359.4584

Ed Byrnes, BASW Program Director
509.359.2294
ebyrnes@ewu.edu

Lisa Parise (lparise@ewu.edu), Director of Field Education and Training
509.359.6477

Diane Somerday (dsomerday@ewu.edu), Coordinator, Undergraduate and Graduate Student Services
509.359.6482

Sue Thompson (sthompson2@ewu.edu), Student Services Coordinator
509.359.6485

Faculty


Undergraduate Degrees

Bachelor of Arts (BA)

• Social Work (p. 361)

Undergraduate Programs

Mission of the School of Social Work

The School prepares its graduates to be ethical and effective change agents at the intersection of cultures, communities and professions. Our graduates will practice with mindfulness about historical oppression and hopefulness in fostering a more socially just world. We are especially committed to educating first-generation college students and those from underserved communities.

Vision

The School prepares social work professionals for practice in the public sector or in those private agencies which address the needs of oppressed and disadvantaged populations. Students are provided with the necessary values, knowledge and skills to practice within a rural/regional/small urban service delivery system environment.

Graduates assume key professional practice roles in human service agencies, community organizations, collaborative networks and change focused coalitions.

The curriculum prepares students to engage in processes aimed at empowering individuals to improve their life situation and to modify the organizational, community and societal conditions that prevent oppressed populations from obtaining a basic quality of life.

Through the combined commitment of the practice community and faculty, the School prepares students at the undergraduate and graduate levels for professional social work practice; serves place-bound individuals by providing structured part-time, off-campus, programs; responds to the needs of practitioners through the provision of continuing education, staff development and consultation; and undertakes research activities which contribute to the creation and dissemination of knowledge relevant to the profession.

Accreditation

The School of Social Work at Eastern Washington University is accredited at the baccalaureate and master's levels by the Council on Social Work Education.

Graduates of the School's BASW Program will be able to:

• identify as a professional social worker and conduct oneself accordingly;
• apply social work ethical principles to guide professional practice;
• apply critical thinking to inform and communicate professional judgments;
• engage diversity and difference in practice;
• advance human rights and social and economic justice;
• engage in research-informed practice and practice-informed research;
• apply knowledge of human behavior and the social environment;
• engage in policy practice to advance social and economic well-being and to deliver effective social work services;
• respond to contexts that shape practice;
• practice professionally with individuals, families, groups, organizations, and communities through effectively engaging, assessing, intervening and evaluating.

Admissions Requirements for High School Students

Students planning to major in social work should have a strong college preparatory background. Volunteer or employment experience with a social service agency is also strongly recommended.

Admissions Requirements for Transfer Students and Students Completing AA Degrees

Early planning is highly advantageous to the student. Transfer students should make an appointment to see the Coordinator of Undergraduate/Graduate Student Services 509.359.6482 to assist in the transfer.

Application Procedures

There are two separate application procedures for admission. Students must be admitted to EWU and be admitted to the School of Social Work. Students seeking admission to the social work program must submit application materials prior to beginning the junior year, normally the winter or spring quarters. Pre-major advising is available through the School by calling 509.359.6482. Applications are available on our web page, ewu.edu/basw (http://www.ewu.edu/basw). Please visit this web page for application deadline information.

Admissions Criteria

Admission to the program is based on cumulative GPA, a personal statement addressed to the applicant's motivation for choosing social work as a career and experience relevant to social work and two personal references from faculty or others familiar with how you could perform social work tasks. Applications are reviewed and evaluated by faculty to
select candidates with strong potential to enter practice upon completion of their degree work.

Before applying to the program, applicants should have completed most or all of their GECRs (General Education Core Requirements). In addition, they should have completed or be in the process of completing the university language and other EWU requirements. If these requirements are not complete at the time of application, students should have a plan to complete them and include that plan in their personal statement. Students who have not completed all of their other EWU graduation requirements shall submit a plan for accomplishing this before they will be formally admitted into the BASW Program.

School of Social Work Curriculum
The curriculum is designed to meet the goals of the program within a framework that includes a broad liberal arts education and focused professional social work education and socialization.

Social work classes and support classes with a <2.0 are not acceptable for graduation. Credit for life experience cannot be given for any social work course.

The Field Practicum
The field practicum experience in the social work program is considered a vital element of the curriculum leading to a Bachelor of Arts degree. It is the major vehicle that permits the student to discover abilities and areas of growth, integrate theory with practice and explore the world of social welfare services. Students with prior volunteer or work experience will need to seek placements that offer new learning, different tasks, new contacts and opportunities for personal growth.

To enter the practicum, students must have completed all of the social work courses up to the point of practicum entry with a minimum average GPA ≥2.7. The field practicum is open to majors only. Application for the practicum is completed in spring quarter of the student’s junior year. Based upon their learning objectives, students are carefully matched with public or private agency settings in diverse areas of service. Students with prior volunteer or work experience are urged to seek placements that offer different tasks, new contacts and opportunities for personal growth.

The advanced or second half of the MSW program focuses on Advanced Generalist Practice. Advanced generalist practice builds on the generalist foundation and increases the depth and breadth for practice from a multi-level and theoretically sound perspective. We are striving for a deep understanding and application of the “spirit” of social work that embraces social justice in all areas of practice.

Specifically, advanced general practice for the EWU School of Social Work prepares the student for self-directed and autonomous practice through:

- advanced knowledge and skills in assessment and intervention methods of research informed practices within a generalist framework;
- readiness for leadership in a variety of arenas and practice settings, including program development, coordination, administration and supervision;
- social action knowledge and skills in policy analysis, development, legislation action, and community development;
- integrated research knowledge and skills that prepare students to evaluate their own practice, programs, and the evidence supporting specific interventions;
- elective content, advanced knowledge and skills in specific areas of practice, such as aging, palliative care, disabilities, public health, mental health, addiction, school social work, and child welfare.

Graduate Degrees
Master of Social Work (MSW)
- Social Work (p. 362)
- Social Work, Advanced Standing Program (p. 362)

Graduate Program
The Master of Social Work Program was established in 1974, following authorization by the state government to meet the need for graduate professional education in social work in the Inland Northwest. The first class of graduate students was admitted in 1975, at which time the program was granted accreditation candidacy status by the Council on Social Work Education (CSWE). Full accreditation was conferred in 1977, reaffirmed in 1984, 1993, 2001 and again in 2008.

The generalist foundation or first half of the MSW program focuses on the CSWE Core Competencies:
- identify as a professional social worker and conduct oneself accordingly;
- apply social work ethical principles to guide professional practices;
- apply critical thinking to inform and communicate professional judgments;
- engage diversity and difference in practice;
- advance human rights and social and economic justice;
- engage in research informed practice and practice-informed research;
- apply knowledge of human behavior and the social environment;
- engage in policy practice to advance social and economic well-being and to deliver effective social work services;
- respond to contexts that shape practice;
- engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

The advanced or second half of the MSW program focuses on Advanced Generalist Practice. Advanced generalist practice builds on the generalist foundation and increases the depth and breadth for practice from a multi-level and theoretically sound perspective. We are striving for a deep understanding and application of the “spirit” of social work that embraces social justice in all areas of practice.

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- elective content, advanced knowledge and skills in specific areas of practice, such as aging, palliative care, disabilities, public health, mental health, addiction, school social work, and child welfare.

MSW Choices
The School Provides Two Options for the MSW: Campus full-time study and community-based part-time study. Advanced Standing programs are available in both campus and community based settings. The GRE is not required for the full-time, part-time or Advanced Standing.

Full-time Campus Program: Students are admitted to the campus program every fall quarter. They follow standard academic-year calendars and complete their degrees within six quarters, excluding summers, in a program of full-time study. Because of the demands of the full-time program, full-time employment is not recommended while a student is in the program.

Part-Time Community-Based Programs: These structured outreach programs have been designed for people who cannot leave job and family to return to school on a full-time basis for a graduate education. Everett and Vancouver offer coursework two evenings per week. Spokane offers a hybrid program. Courses are held at the Riverpoint campus three weekends per quarter and the rest are online.

All part-time programs are based on a cohort model that begins once every three years. The sequencing of coursework in the part-time programs may vary by location. The curriculum requirements for
to Social Welfare and Policy of Practice and Human Development in Contemporary Environments. Social Work Practice in a Diverse Society develops knowledge of diverse populations with whom and on behalf of whom, social workers practice. The course also explores practice principles for working with people of difference and for working in an increasingly diverse society. Social Work Intervention and Evaluation with Individuals and Families and Social Work Groups continue the development of practice knowledge and skills.

The foundation continues to prepare students for generalist practice with systems of different sizes through the course Organizational and Community Practice. Students learn to critically evaluate and use research in their practice in the course Research Methods for Program and Practice Evaluation. Students also begin the first two quarters of a five-quarter field practicum and integrative seminar near the middle of the foundation curriculum.

The MSW program requires a total of 952 hours of field practicum and 80 hours of integrative seminar sequenced over the course of the program. Before beginning their foundation practicum, two year students participate in SOWK 580 Field Preparation during fall quarter. After completing this course, each student is placed in a social service agency or other public or private organization related to the welfare of people. Direction and instruction are provided by a faculty member of the School, working collaboratively with a designated agency supervisor in the organization. The faculty member, the agency supervisor and the student negotiate a contract specifying student learning goals, potential field learning experiences and the means for evaluating the field learning. Agencies and organizations throughout the state of Washington in rural, urban and regional settings are used as field placements.

Students who wish to complete practicum requirements within their current or former workplace must indicate this desire to the School at the time of admission. This indication does not automatically ensure a practicum in the workplace. Consideration will be given to each request individually. Practicum placements in the workplace must conform with all of the School’s existing field practicum requirements.

Courses in the advanced portion of the curriculum prepare students for advanced generalist practice with systems of all sizes. Students develop leadership skills working with clients and communities to advance social justice, particularly for socially excluded, at-risk or marginalized populations. SOWK 602 Clinical Diagnosis and Evidence Based Treatment, SOWK 603 Leadership and Management in Human Service Organizations present theoretical models and specific skills in engagement, assessment and intervention with individuals, families, groups, organizations and communities. SOWK 568 Proseminar in Social Welfare Policies and Programs examines the political context for decisions that affect the lives of clients. SOWK 525 Research Methods II, covers advanced research and evaluation methodologies. Students also choose 16 credits of elective courses to help focus their learning to meet their professional goals. The required Practicum and its related seminar continue throughout each quarter of the advanced portion of the curriculum.

The Curriculum Delivery Plan
The MSW curriculum comprises sequenced foundation and advanced coursework. On-campus, full-time students complete the curriculum in two years or six quarters. Off-campus, part-time students complete the program in a sequenced manner over the course of three years or 12 quarters.
Innovative Program Options
The School of Social Work offers several ways in which students can focus their programs of study to meet their professional goals. Certificates typically require 12 credits. In some circumstances, such as the MPA Certificate, all 12 of these elective credits may be used in lieu of Social Work electives. For other certificates only 8 credits can be used in lieu of Social Work electives. Interested students should contact the MSW Advisor, at 509.359.6482, for additional information and/or individuals associated with programs listed below.

Certification for School Social Work (http://www.ewu.edu/csbssw/programs/social-work)
The state of Washington requires certification to qualify for employment in the public school system. EWU does not manage the certification process. The School of Social Work offers the course School Social Work and School Law. While a practicum is no longer required for certification, we do offer field placements in school settings.

Addiction Studies Certificate
Grace Creasman (gcreasman@ewu.edu), 509.359.2356

The Addiction Studies Graduate Certificate is designed for persons who have completed a bachelor’s or master’s degree with a background in social work or a related field who are interested in obtaining coursework that can lead to certification as a Chemical Dependency Professional.

MSW/MPA Dual Degree Program and MPA Certificate
Ning Li (ning.li@ewu.edu), 509.828.1264

Certificate: This 12 credit certificate provides interested students with content in: Planning and Budgeting, Grant Writing and Personnel Management. The Three courses provide elective credit to the MSW degree. Students may also take related courses in Public Administration without pursuing the certificate.

Dual degree: More comprehensive than a Certificate, this cooperative degree option allows students to prepare for professional employment in both social worker and public administration. Interested students are encouraged to review the catalog descriptions in Public Administration to get an overview of the coursework in this field.

Center for Studies in Aging
Sharon Bowland (sbowland@ewu.edu), 509.359.4584

The Center provides interested students an opportunity to focus their coursework and practicum experience in the growing area of practice with older adults. Many of the community-based internships offer a stipend to qualified students. The Center sponsors a Scholar-in-Residence and has established strong community and organizational linkages to develop programs that better meet the needs of our aging population.

MSW/JD Degree
Offered in collaboration with Gonzaga University Law School (http://www.law.gonzaga.edu), students complete the requirements of both professional programs. Approximately 12 credits are counted toward both programs of study. In consultation with advisors in law and social work, students are placed in practica that address the legal and psychosocial needs of vulnerable clients. Integrative seminars allow students to better identify points of intersection of social work and the law and how practice in one field can enhance work in the other.

Student Organization
The social work graduate student organization is recognized by the university as an established student organization and, as such, may request funding from the Associated Students of EWU to sponsor additional educational endeavors; e.g., workshops, guest speakers. Graduate students are encouraged to become members of the School of Social Work committees and other university and community committees and organizations.

Social Work Major, Bachelor of Arts (BA)
Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Required Courses

<table>
<thead>
<tr>
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<td>INTRODUCTION TO SOCIAL WORK</td>
<td>5</td>
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<tr>
<td>SOWK 378</td>
<td>HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 379</td>
<td>HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 381</td>
<td>DIVERSITY AND SOCIAL WORK</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 459</td>
<td>SURVEY OF MICROSYSTEMIC PRACTICE THEORIES</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 468</td>
<td>SOCIAL WORK RESEARCH</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 469</td>
<td>DATA ANALYSIS FOR SOCIAL WORK</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 470</td>
<td>SOCIAL POLICY ANALYSIS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 475</td>
<td>SOCIAL WORK ENGAGEMENT AND ASSESSMENT I</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 476</td>
<td>SOCIAL WORK ENGAGEMENT AND ASSESSMENT II</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 477</td>
<td>SOCIAL WORK WITH COMMUNITIES</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 478</td>
<td>SOCIAL WORK WITH INDIVIDUALS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 479</td>
<td>SOCIAL WORK WITH GROUPS</td>
<td>4</td>
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<tr>
<td>SOWK 480</td>
<td>FIELD PREPARATION</td>
<td>1</td>
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<tr>
<td>SOWK 482</td>
<td>PRACTICUM/SEMINAR (must be repeated three times)</td>
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<tr>
<td>SOWK 490</td>
<td>SOCIAL WORK SENIOR CAPSTONE</td>
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Required BASW Elective

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<tbody>
<tr>
<td></td>
<td>Total Credits</td>
<td>76</td>
</tr>
</tbody>
</table>

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- be open to new ideas, think critically and be capable of incorporating evidenced based theories and interventions into their professional social work tasks;
- take a leadership role in understanding, articulating and advocating on behalf of client definitions of social and personal problems, client strengths and client defined solutions;
- base their practices on systems and empowerment theories and ecological and strengths perspectives, as well as other understandings supported by scientific evidence;
- perform a wide range of tasks and roles within the context of organizational and service delivery structures and bring enthusiasm and creativity to generalist social work practice;
• define themselves as professional social workers, guided by social work values and ethical standards which include a deep respect for diversity in all its forms and a commitment to work with populations-at-risk for social justice.

**Social Work, Advanced Standing Program, Master of Social Work (MSW)**

Summer preparation program (6 credits) is required before entry to second year fall quarter classes.

The one-year Advanced Standing Program is only for persons with a BASW/BSW. In addition to the requirements for admission to the two-year program, the following requirements must be met:

1. a bachelor of social work degree must have been awarded no longer than seven years before the application date and the degree must be from a CSWE accredited undergraduate social work program,
2. an overall undergraduate GPA ≥3.0 (on a 4.0 scale) and a GPA ≥3.5 in BSW course work.

This program requires a total of 51 credits. Foundation or first-year, course requirements are waived because students have received equivalent content in their BSW programs. A 6 credit Professional Preparation Seminar is required to prepare students for their advanced portion of the curriculum.

**Advanced Standing Preparation**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 561</td>
<td>ADV. STANDING SEM.</td>
<td>6</td>
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</table>

**Advanced Required Classes**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOWK 526</td>
<td>RESEARCH METHODS II</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 568</td>
<td>PROSEMINARS IN SOCIAL WELFARE POLICIES AND PROGRAMS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 581</td>
<td>INTEGRATIVE SEMINAR I</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 582</td>
<td>INTEGRATIVE SEMINAR II</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 583</td>
<td>INTEGRATIVE SEMINAR III</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 584</td>
<td>INTEGRATIVE SEMINAR IV</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 602</td>
<td>CLINICAL DIAGNOSIS AND EVIDENCE BASED TREATMENT</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 603</td>
<td>LEADERSHIP AND MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Elective Courses**

12

**Total Credits**

51

**Student Learning Outcomes—students will**

• critique and implement evidence and strengths-based intervention models within an ecological practice framework;
• form relationships with community partners to meet client needs and address barriers to social justice across systems of all sizes;
• practice from case to case and back to case, demonstrating an understanding of the interplay between policy and practice and the impact on client systems;
• engage in participatory forms of applied research to solve community problems.

**Social Work, Master of Social Work (MSW)**

Students are required to complete 90 credits of required and elective coursework (51 credits in the Advanced Standing Program) and must maintain a cumulative GPA ≥3.0.

Prior to earning 45 credits (during fall quarter for Advanced Standing Program), students will develop a contract program in consultation with faculty, outlining the program of courses to be completed for the degree. This contract will be based on the student’s career goals, standards of the profession and the objectives of the School. Development and approval of the contract program will be accomplished in conjunction with advancement to degree candidacy.

A final comprehensive examination will be administered in the student’s final quarter.

**Note:**

• must maintain a cumulative GPA ≥3.0.

**Foundation Curriculum**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 525</td>
<td>RESEARCH METHODS FOR PROGRAM AND PRACTICE EVALUATION</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 530</td>
<td>ORGANIZATIONAL AND COMMUNITY PRACTICE</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 531</td>
<td>INTRODUCTION TO SOCIAL WELFARE AND POLICY</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 532</td>
<td>FOUNDATIONS OF PROFESSIONAL SOCIAL WORK PRACTICE</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 533</td>
<td>SOCIAL WORK ASSESSMENT AND PRACTICE WITH INDIVIDUALS AND FAMILIES</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 540</td>
<td>HUMAN DEVELOPMENT IN CONTEMPORARY ENVIRONMENTS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 541</td>
<td>SOCIAL WORK PRACTICE IN A DIVERSE SOCIETY</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 550</td>
<td>SOCIAL WORK WITH GROUPS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 553</td>
<td>SOCIAL WORK INTERVENTION AND EVALUATION WITH INDIVIDUALS AND FAMILIES</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 571</td>
<td>FOUNDATION PRACTICUM/SEMINAR (must be taken for 4)</td>
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</tr>
<tr>
<td>SOWK 580</td>
<td>FIELD PREPARATION</td>
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**Advanced Curriculum in Advanced Generalist Practice**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOWK 526</td>
<td>RESEARCH METHODS II</td>
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<tr>
<td>SOWK 568</td>
<td>PROSEMINARS IN SOCIAL WELFARE POLICIES AND PROGRAMS</td>
<td>4</td>
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<tr>
<td>SOWK 581</td>
<td>INTEGRATIVE SEMINAR I</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 582</td>
<td>INTEGRATIVE SEMINAR II</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 583</td>
<td>INTEGRATIVE SEMINAR III</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 584</td>
<td>INTEGRATIVE SEMINAR IV</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 602</td>
<td>CLINICAL DIAGNOSIS AND EVIDENCE BASED TREATMENT</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 603</td>
<td>LEADERSHIP AND MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 671</td>
<td>ADVANCED PRACTICUM/SEMINAR (must be repeated 4, 4, 5)</td>
<td>13</td>
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</tbody>
</table>

**Electives**

16

**Total Credits**

90
Student Learning Outcomes—students will

- critique and implement evidence and strengths-based intervention models within an ecological practice framework;
- form relationships with community partners to meet client needs and address barriers to social justice across systems of all sizes;
- practice from case to cause and back to case, demonstrating an understanding of the interplay between policy and practice and the impact on client systems;
- engage in participatory forms of applied research to solve community problems.
Sociology

Sean Chabot, Chair
department page (https://www.ewu.edu/css/programs/sociology-)
329 Patterson Hall
509.359.2335

Faculty

Undergraduate Degrees
Bachelor of Arts (BA)
- Sociology (p. 364)

Undergraduate Minors
- Sociology (p. 364)

Undergraduate Programs
Sociology may be defined as the scientific study of human society and the social interactions which emerge among people. Sociology seeks to develop a body of interrelated scientific propositions or generalizations that explain social behavior in holistic terms. Its basic goal is to understand how human beings fit their activities together into a system of stable (and sometimes unstable) social arrangements. As such, sociology focuses on the groups, organizations, institutions and communities which make up the larger society. Sociology seeks to place society in the international setting of today's changing world. More importantly, it helps us to understand the relationships among these various social units and the implications of these relationships for order and change.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Sociology Major, Bachelor of Arts (BA)

Within the Bachelor of Arts degree, the Department of Sociology and Justice Studies offers a program in sociology, blending career education and the liberal arts. The education goal is not to train students; neither is the goal to educate students solely in sociology. Rather, the goal is to use the discipline as a way to critically synthesize what is learned in a liberal arts program. The program envisaged here provides a general background which will enable the student to move into a variety of career paths, while retaining the opportunity for particular specializations within sociology and thematically related disciplines.

The Department of Sociology and Justice Studies believes that a university must educate broadly to enrich both career and life. Accordingly, students in the Sociology Program will complete social science foundation courses, as well as core disciplinary courses. In order to assist students as they move into a variety of career paths, students will complete elective courses selected under the guidance of a Sociology major advisor.

Note: two years of a single high school foreign language or one year of a single foreign language at college level is required for this major.

Required Introduction and Social and Behavioral Science Foundation

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
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<tr>
<td>SOCI 101</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
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<td>SOCI 357</td>
<td>METHOD FOR SOCIAL RESEARCH</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 465</td>
<td>CONTEMPORARY SOCIOLOGICAL THEORY</td>
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Required Core Disciplinary

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<tbody>
<tr>
<td>SOCI 351</td>
<td>SOCIAL STRATIFICATION</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 363</td>
<td>SOCIOLOGY OF DEVIANCE</td>
<td>5</td>
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<tr>
<td>SOCI 470</td>
<td>SOCIAL CHANGE</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 481</td>
<td>SOCIAL PSYCHOLOGY</td>
<td>5</td>
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Social Justice and Community Engagement—choose two

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<th>Course</th>
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<tr>
<td>SOCI 320</td>
<td>RACE AND ETHNIC RELATIONS: GLOBAL PERSPECTIVES</td>
<td>5</td>
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<tr>
<td>SOCI 321</td>
<td>SEX AND GENDER</td>
<td>5</td>
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<tr>
<td>SOCI 482</td>
<td>IDENTITY AND POWER</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 485</td>
<td>SOCIOLOGY OF REVOLUTIONS</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 486</td>
<td>CONTEMPORARY WORLD SYSTEMS</td>
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Institutions and Civil Society—choose one

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<thead>
<tr>
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<tr>
<td>SOCI 362</td>
<td>SOCIOLOGY OF POLITICS</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 370</td>
<td>SOCIOLOGY OF THE FAMILY</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 463</td>
<td>COMPLEX ORGANIZATIONS</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 471</td>
<td>SOCIOLOGY OF WORK</td>
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</tr>
<tr>
<td>SOCI 472</td>
<td>SOCIOLOGY OF RELIGION</td>
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<tr>
<td>SOCI 488</td>
<td>SOCIOLOGY OF EDUCATION</td>
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Sociological Practice Course—choose one

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<tbody>
<tr>
<td>SOCI 489</td>
<td>DOING SOCIOLOGY</td>
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<tr>
<td>SOCI 495</td>
<td>INTERNSHIP</td>
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Required Discipline-Based Capstone or Thesis—choose one

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SOCI 490</td>
<td>SENIOR CAPSTONE: SOCIOLOGICAL PRACTICE</td>
<td>5</td>
</tr>
<tr>
<td>SOCI 491</td>
<td>SENIOR THESIS</td>
<td>5</td>
</tr>
</tbody>
</table>

Required Elective Courses—chosen with the direction of a SOCI advisor and with approval of the department chair

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

Total Credits 75

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate an understanding of the relationship between critical inquiry and social justice;
- demonstrate an understanding of core concepts such as social structure, socialization, culture, identity, institutions power, inequality and social justice;
- understand and apply various methodological and theoretical approaches for conducting research.

Sociology Minor

Required Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 101 INTRODUCTION TO SOCIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>Electives—choose two additional upper-division SOCI courses</td>
<td>10</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>
Women’s and Gender Studies

Sally Winkle, Director
department page (https://www.ewu.edu/css/programs/womens-and-gender-studies)
207 Monroe Hall
509.359.2847

Faculty


Affiliated/Participating Faculty: Kathryn Julyan.

Undergraduate Degrees

Bachelor of Arts (BA)

• Women’s and Gender Studies (p. 368)
• Women’s and Gender Studies with a Prior Learning Option (p. 368)

Undergraduate Certificate

• Gender Studies (p. 367)

Undergraduate Minors

• Women’s and Gender Studies (p. 369)

Undergraduate Programs

Women’s and Gender Studies offers students an interdisciplinary examination of women’s roles, contributions, history and experiences as well as a critical study of gender structures in societies and cultures in the U.S. and the world. It utilizes gender, along with race and class as a category of analysis, helping students investigate the role that gender plays in our history, literature, art, politics, education, sports, health and family.

The Women’s and Gender Studies Program is committed to achieving the following goals:

• to contribute to a broad understanding of interdisciplinary scholarship, theories and practices concerning the role of women and gender in society;
• to enhance the credentials and experience of students preparing for careers in a wide range of fields;
• to increase students’ understanding of diversity and equity in society in accordance with university mission, commitments and initiatives.

The Women’s and Gender Studies Program works closely with the Women’s Studies Center on projects such as the NEW Leadership Institute and the Activist-in-Residence Program. The Center maintains a library and offers numerous presentations and events. The HOME Program (Helping Ourselves Means Education) is one facet of the Women’s Studies Center. This program works to support student parents by providing educational events and childcare scholarships.

The Women’s and Gender Studies Program and Women’s Studies Center welcome participation by all members of the university community.

The Women’s and Gender Studies academic program offers a major and minor in Women’s and Gender Studies as well as an undergraduate Gender Studies certificate. There is also a graduate level certificate in Gender and Sexuality Studies.

The Women’s and Gender Studies major will fulfill partial requirements for a Bachelor of Arts degree. This 45–52 credit major requires the completion of a minor or a certificate and provides students with the opportunity to choose a second major to enhance career or post-graduate study opportunities.

The major includes a prior learning option to allow adult learners who have acquired professional or paraprofessional experience to have their experiential learning evaluated for a block of elective credit.

Required courses in the following programs of study may have prerequisites. Reference the course description section for clarification.

Distribution List of Courses

Applied Emphasis

| WMST/SOWK 377 | ALTERNATIVES TO DOMESTIC VIOLENCE | 2 |
| WMST 411 | FEMINIST METHODOLOGIES | 5 |
| WMST/MGMT 424 | EQUITY AND EQUALITY IN THE WORKPLACE | 3 |
| WMST/SOWK 448 | LGBTQ ISSUES FOR THE PROFESSIONAL | 4 |
| WMST/SOWK 452 | GENDER AND SEXUAL ASSAULT | 4 |
| WMST 495 | INTERNSHIP | 1-5 |

Applied/Theoretical Emphasis

| WMST/CMST 314 | GENDER AND COMMUNICATION | 5 |
| WMST/BIOL 318 | BIOLOGY OF WOMEN | 3 |
| WMST/SOCI 321 | SEX AND GENDER | 5 |
| WMST/PSYC 331 | PSYCHOLOGY OF WOMEN | 4 |
| WMST/BIOL/ CHEM/GEO/L/ HIST/PHYS/ PSYC 338 | DISCOVERING WOMEN IN SCIENCE | 1 |
| WMST/HIST 351 | GENDER AND TOTAL WAR | 5 |
| WMST/CRIM 360 | WOMEN IN PRISON | 5 |
| WMST/HLED 366 | WOMEN’S HEALTH ISSUES | 4 |
| WMST/SOCI 370 | SOCIOLOGY OF THE FAMILY | 5 |
| WMST 371 | CULTURAL STUDY: AFRICAN AMERICAN WOMEN AND HAIR | 2 |
| WMST/ENGL 389 | WOMEN, LITERATURE AND SOCIAL CHANGE | 5 |
| WMST/HIST 394 | WOMEN IN AMERICAN HISTORY | 5 |
| WMST 400 | WOMEN AND MEN IN LITERATURE | 1 |
| WMST 402 | WOMEN AND MEN IN THE U.S. ECONOMY | 1 |
| WMST 405 | WOMEN AND MEN IN HISTORY | 1 |
| WMST 406 | WOMEN AND MEN IN THE CULTURAL LANDSCAPE | 1 |
| WMST 409 | WOMEN AND MEN IN CONTEMPORARY ART | 1 |
WMST 413  GENDER AND YOUTH CULTURE  5
WMST 414  GENDER AND SEXUALITY IN CINEMA  5
WMST/CMST  GENDER AND MEDIA  5
WMST/PHIL 417  WOMEN AND ETHICS  5
WMST/CMST 419  SEX, SEXUALITY AND COMMUNICATION  5
WMST/PSYC 421  CARE AND CUSTODY OF FEMALE OFFENDERS  5
WMST 426/ AAST 424/ECON  ECONOMICS OF POVERTY AND DISCRIMINATION  5
WMST/ECON 427  ECONOMICS OF WOMEN AND WORK  5
WMST/AAST 430  AFRICAN AMERICAN WOMEN’S HISTORY  5
WMST/ANTH 432  ANTHROPOLOGY OF GENDER  4
WMST/ANTH/ GEOG/HIST 437  WOMEN AND ISLAM  5
WMST/SOWK 450  WOMEN AND SOCIAL CHANGE  4
WMST/AGST/ SOWK 456  THE OLDER WOMEN  4
WMST/HIST 468  HISTORY OF MODERN AMERICAN WOMEN  5
WMST/SOWK 471  HUMAN RIGHTS AND WOMEN’S RIGHTS  4
WMST/IDST 477  CONTEMPORARY INDIGENOUS WOMEN  5
WMST/SOCI 483  SOCIOLOGY OF CHILDREN  5
WMST/ENGL 489  LGBT WRITERS: THEIR LIVES AND THEIR WORKS  5
WMST 490  SENIOR CAPSTONE SEMINAR (Women’s Studies Capstone Seminar that includes a service learning component, such as a community action project that contributes to the betterment of the community or that assists a community partner.)  4
WMST 495  INTERNSHIP (A concentrated set of experiences in a supervised work setting in which the competencies developed through coursework are utilized in actual practice.)  1-2
WMST 499  DIRECTED STUDY (Research Project or Guided Teaching/Instructional Development Experience in consultation with Gender Studies Certificate Coordinator and appropriate faculty member.)  4

Electives in Area or Interest—see the Distribution List of Courses.  11-13

Required Experiential Component—choose one—must be approved by  3-5
Women’s Studies Director

Theoretical Emphasis
WMST/HIST 392  WOMEN IN THE AMERICAN WEST  5
WMST/HUMN 410  FEMINIST THEORY  4
WMST/HUMN 415  GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES  5
WMST/PHIL 420  QUEER THEORY  5
WMST/PHIL 440  WOMEN AND PHILOSOPHY  5
WMST/SPAN 475  HISPANIC WOMEN WRITERS  4

Graduate Certificate
• Gender Studies (p. 367)

Gender Studies Certificate
An interdisciplinary, critical study of gender and its social impact, designed to increase student understanding of ways in which gender is developed, constructed and expressed in attitudes and institutions of modern societies. The certificate includes a capstone or practicum experience to facilitate students’ abilities to apply their knowledge in a variety of occupations.

Notes:
• no more than 3 credits of summer workshop may be counted toward the certificate;

• students who are completing a minor in Women’s and Gender Studies as well as a Gender Studies Certificate may only count one course for both the certificate and the minor: WMST 101 or WMST 310.

Distribution List (p. 366) of WMST courses.

Required Courses
Choose one of the following courses
WMST 101  INTRODUCTION TO WOMEN’S STUDIES  4-5
or HUMN 101  INTRODUCTION TO WOMEN’S STUDIES
or WMST 310  ISSUES IN WOMEN’S STUDIES
or HUMN 310  ISSUES IN WOMEN’S STUDIES

Choose one of the following courses  5
WMST 314  GENDER AND COMMUNICATION
or CMST 314  GENDER AND COMMUNICATION
WMST 321  SEX AND GENDER
or SOCI 321  SEX AND GENDER
WMST 417  WOMEN AND ETHICS
or PHIL 417  WOMEN AND ETHICS

Electives in Area or Interest—see the Distribution List of Courses.  11-13
Required distribution of electives: choose at least two courses from the applied emphasis or applied/theoretical emphasis lists. You may choose up to 5 credits from the theoretical emphasis list.

Total Credits  23-28

Student Learning Outcomes
• convey knowledge of historical perspectives on feminist thought and feminism as a movement;
• analyze connections among societal structures such as gender, race, class, age and sexuality that contribute to women’s oppressions;
• analyze the role of language in producing and perpetuating cultural attitudes;
• apply their theoretical knowledge through an internship or experiential learning.

Gender and Sexuality Studies Graduate Certificate

Notes:
Women’s and Gender Studies Major with the Prior Learning Option, Bachelor of Arts (BA)

Same as Women’s and Gender Studies major above with an added 4 credits for ITDS 300.

The Prior Learning Program provides the adult learner who has acquired specialized professional or paraprofessional experience, the opportunity to have their experiential learning evaluated for a block of elective credit. The credit awarded cannot exceed 45 credits and can only be utilized in the prior learning option. The block of elective credit will count toward the 180 credits needed for the baccalaureate degree, but not toward general education requirements or the major. Documenting prior learning requires ITDS 300 to guide the student in preparation of a portfolio that articulates and validates learning. The portfolio completed in the course can be submitted for evaluation by an Eastern faculty who determines the credit award.

The Prior Learning Option can be taken in conjunction with the 45-credit major.

Distribution List (p. 366) of WMST courses.

Notes:
• two years of a single high school foreign language or one year of a single college level foreign language is required for this major;
• this major requires the completion of a minor or certificate approved by a Women’s and Gender Studies advisor or a second major;
• students must complete at least 25 credits of this major at EWU.

Required Core
WMST 510  FEMINIST THEORY  4
WMST 511  FEMINIST METHODOLOGIES  5

Required Electives
Choose a minimum of 14 credits of WMST or WMST-cross-listed courses at or above the 400 level to bring the total to a minimum of 23 credits for the certificate. A maximum of 5 credits is permitted at the 400 level; the remaining credits must be at or above the 500 level.

Total Credits  23

Student Learning Outcomes, student will
• synthesize knowledge of historical perspectives on gender and sexuality;
• analyze connections between gender and sexuality and other societal structures such as race, class, age, ability status, etc.;
• synthesize knowledge of global perspectives on gender and sexuality;
• analyze the role of language in producing and perpetuating cultural attitudes about gender and sexuality;
• synthesize knowledge of the multiplicity of theoretical positions regarding gender and sexuality, such as feminist theory, queer theory, etc.;
• analyze and synthesize theories concerning the diversity of gender and sexual identities, such as lesbian, gay, bisexual, transgender, queer, etc.

Women’s and Gender Studies Major with the Prior Learning Option, Bachelor of Arts (BA)

Same as Women’s and Gender Studies major above with an added 4 credits for ITDS 300.

The Prior Learning Program provides the adult learner who has acquired specialized professional or paraprofessional experience, the opportunity to have their experiential learning evaluated for a block of elective credit. The credit awarded cannot exceed 45 credits and can only be utilized in the prior learning option. The block of elective credit will count toward the 180 credits needed for the baccalaureate degree, but not toward general education requirements or the major. Documenting prior learning requires ITDS 300 to guide the student in preparation of a portfolio that articulates and validates learning. The portfolio completed in the course can be submitted for evaluation by an Eastern faculty who determines the credit award.

The Prior Learning Option can be taken in conjunction with the 45-credit major.

Distribution List (p. 366) of WMST courses.
Distribution List (p. 366) of WMST courses.

Notes:

- two years of a single high school foreign language or one year of a single college level foreign language is required for this major;
- this major requires the completion of a minor or certificate approved by a Women’s and Gender Studies advisor or a second major;
- students must complete at least 25 credits of this major at Eastern Washington University.

Required
Introductory Courses—choose one of the following 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 101</td>
<td>INTRODUCTION TO WOMEN'S STUDIES</td>
</tr>
<tr>
<td>or HUMN 101</td>
<td>INTRODUCTION TO WOMEN'S STUDIES</td>
</tr>
<tr>
<td>WMST 310</td>
<td>ISSUES IN WOMEN'S STUDIES</td>
</tr>
<tr>
<td>or HUMN 310</td>
<td>ISSUES IN WOMEN'S STUDIES</td>
</tr>
</tbody>
</table>

Foundation Courses—choose one of the following 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSBS 310</td>
<td>FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY</td>
</tr>
<tr>
<td>CSBS 320</td>
<td>INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES</td>
</tr>
<tr>
<td>DSCI 245</td>
<td>DATA ANALYSIS FOR BUSINESS</td>
</tr>
</tbody>
</table>

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 410</td>
<td>FEMINIST THEORY</td>
</tr>
<tr>
<td>or HUMN 410</td>
<td>FEMINIST THEORY</td>
</tr>
<tr>
<td>WMST 490</td>
<td>SENIOR CAPSTONE SEMINAR</td>
</tr>
<tr>
<td>WMST 495</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>&amp; WMST 499</td>
<td>and DIRECTED STUDY</td>
</tr>
<tr>
<td>WMST 499</td>
<td>DIRECTED STUDY</td>
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</tbody>
</table>

Experiential Learning Requirement—choose one of the following 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 495</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>&amp; WMST 499</td>
<td>and DIRECTED STUDY</td>
</tr>
</tbody>
</table>

Electives/Breadth Courses—select 23-25 credits from the WMST course distribution list to meet the minimum of 45 credits for the major. 23-25

Note: must include cross-listings with at least three different departments/disciplines.

Total Credits 45-47

For information on General Education, see Undergraduate Degree (p. 39).

Student Learning Outcomes—students will

- demonstrate knowledge of historical perspectives on feminist thought and feminism as a movement;
- analyze connections among societal structures such as gender, race, class, age and sexuality that contribute to women’s oppressions;
- demonstrate knowledge of global perspectives on gender and/or women’s issues;
- demonstrate knowledge of women’s individual and collective cultural contributions;
- analyze the role of language in producing and perpetuating cultural attitudes;
- demonstrate familiarity with the multiplicity of views within feminist scholarship.

Women’s and Gender Studies Minor

A Women’s and Gender Studies (WMST) minor complements majors in a variety of disciplines. It provides a theoretical, interdisciplinary approach to the critical examination of women’s roles, contributions, history and experiences and of gender structures in societies and cultures in the U.S. and the world.

The minor may also be taken in partial fulfillment of requirements for the Bachelor of Arts degree in Interdisciplinary Studies.

Distribution List (p. 366) of WMST courses.

Notes:

- students should consult with the Women’s and Gender Studies director on choice of electives—see distribution list below;
- students who are completing a minor in Women's and Gender Studies as well as a Gender Studies Certificate may only count one course for both the certificate and the minor: WMST 101 or WMST 310;
- no more than 8 credits from the Applied Emphasis of the Distribution List will count toward the minor;
- no more than 3 credits of summer workshops may be counted toward the minor.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 101</td>
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<td>or HUMN 101</td>
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<tr>
<td>WMST 410</td>
<td>FEMINIST THEORY</td>
</tr>
<tr>
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<tr>
<td>WMST 490</td>
<td>SENIOR CAPSTONE SEMINAR</td>
</tr>
<tr>
<td>WMST 495</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>&amp; WMST 499</td>
<td>and DIRECTED STUDY</td>
</tr>
</tbody>
</table>

Women's and Gender Studies Electives

To bring total to 22 credits, select 13-14 credits of upper division courses from the WMST distribution list. 14

Total Credits 22-23
COURSE LISTINGS

Accounting (ACCT)

ACCT 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 2 Credits.

ACCT 251. PRINCIPLES OF FINANCIAL ACCOUNTING. 5 Credits.
Pre-requisites: sophomore standing.
Introduction to the underlying principles of financial accounting and the application of such data to financial decisions.

ACCT 252. PRINCIPLES OF MANAGEMENT ACCOUNTING. 4 Credits.
Pre-requisites: ACCT 251.
Introduces the principles and techniques of managerial accounting. Emphasizes the use of information outputs from the managerial accounting information system in making managerial decisions.

ACCT 261. BUSINESS LAW. 4 Credits.
Pre-requisites: sophomore standing.
Law as it applies to the business world. Explores background of our system of legal process. Examines law and its social environment and its impact on business organizations and transactions.

ACCT 299. DIRECTED STUDY. 1-10 Credits.

ACCT 351. INTERMEDIATE ACCOUNTING I. 4 Credits.
Notes: ACCT 351, ACCT 352, ACCT 353 are sequential and cannot be taken out of order or concurrently.

ACCT 352. INTERMEDIATE ACCOUNTING II. 4 Credits.
See ACCT 351.

ACCT 353. INTERMEDIATE ACCOUNTING III. 4 Credits.

ACCT 356. COST ACCOUNTING I. 4 Credits.
Pre-requisites: completion of CPLA 100 and CPLA 101 or CPLA 120; completion of a math course that satisfies math proficiency (MATH 200 is highly recommended), ACCT 251, ACCT 252, DSCI 245, junior standing.

ACCT 357. COST ACCOUNTING II. 4 Credits.
Pre-requisites: ACCT 356.
Cost analysis and control principles and methods applied to manufacturing operations and decision making: applications of information theory to cost accounting reports and decision making; applications of information theory to cost accounting reports and decision processes.

ACCT 358. ACCOUNTING FOR NON-PROFIT ENTITIES. 4 Credits.
Pre-requisites: ACCT 251.
Concepts, principles and procedures of fund accounting and accounting for not-for-profit entities. Emphasis on accounting principles and budgetary control, financial reporting and auditing for effective financial administration of governmental and other non-profit entities.

ACCT 359. ACCOUNTING SYSTEMS. 4 Credits.
Pre-requisites: ACCT 351, ACCT 356, and MISC 211.
This course covers the application of concepts and techniques for the design, function, separation and evaluation of accounting systems. The course also focuses on accounting system design and evaluation in providing timely information along with problems in accounting-system installation and revision.

ACCT 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ACCT 422. ADVANCED BUSINESS LAW. 4 Credits.
Pre-requisites: ACCT 261; senior standing.
Business ethics and social responsibility; public law and regulation including securities law, antitrust law, consumer law, labor law, and debtor/creditor relations.

ACCT 450. AUDITING. 4 Credits.
Pre-requisites: ACCT 353, ACCT 356, ACCT 359.
Generally accepted auditing standards and principles; auditing objectives and methodology; ethical responsibility of the C.P.A. in financial reporting and auditing.

ACCT 451. ADVANCED AUDITING. 4 Credits.
Pre-requisites: ACCT 450.
Special topics in auditing with emphasis on EDP and statistical auditing. Auditing objectives, methodology, and generally accepted auditing standards as they relate to EDP and statistical auditing. Practical audit experience through hands-on computer use on audit cases.

ACCT 452. CONTEMPORARY ACCOUNTING THEORY. 4 Credits.
Pre-requisites: ACCT 353, ACCT 356 and ACCT 359.
This course covers contemporary accounting issues and their theoretical implications; review of accounting literature and research studies and pronouncements of the FASB and other professional organizations.

ACCT 453. ADVANCED ACCOUNTING. 4 Credits.
Selected special topics in financial accounting. Emphasis on financial accounting theory for partnerships, corporate combinations, and other selected advanced topics in financial accounting. Study of official pronouncements and major literature in the above areas.

ACCT 454. FEDERAL INCOME TAX I. 4 Credits.
Pre-requisites: ACCT 251.
Provisions and principles of federal income tax laws affecting the determination of taxable income, tax liability and tax planning for individuals.

ACCT 455. FEDERAL INCOME TAX II. 4 Credits.
Pre-requisites: ACCT 454.
Provisions and principles of federal income tax laws affecting the determination of taxable income and tax liability of corporations and information returns and tax planning for partnerships.

ACCT 456. FEDERAL INCOME TAX III. 4 Credits.
Special topics in federal income taxation. Emphasis on tax research and planning. Designed for specialists in tax work. Technical aspects of taxation - estates, trust, pension and profit-sharing plans, foreign income/foreign taxpayers and audits - tax fraud, rules of evidence and ethics of tax practice.

ACCT 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Notes:
ACCT 351, ACCT 352, ACCT 353 are sequential and cannot be taken out of order or concurrently.
Addiction Studies (ADST)

ADST 196. EXPERIMENTAL COURSE. 1-5 Credits.

ADST 300. SURVEY OF ALCOHOL/DRUG PROBLEMS. 4 Credits.
Students will learn international and current definitions of alcohol and drug use, abuse and addiction. Recognition of misuse as a social problem and the evolution of social policy and attitudes. Socio-cultural and cross-cultural aspects of chemical dependency, including vulnerable populations—women, youth, elderly and ethnic-cultural groups. Identification and progression of symptoms and disease including the impact on individuals, family and society. Special focus on addressing drug problems personally and professionally with an overview of contemporary treatment modalities.

ADST 302. COUNSELING THEORIES FOR THE ADDICTION PROFESSIONAL. 4 Credits.
Students study the principal theories and techniques of therapeutic and counseling relationships with particular focus on those designed for or adept in addressing defense mechanisms and resistance characteristic of addiction.

ADST 303. HIV/AIDS AND ADDICTION TREATMENT. 2 Credits.
This course presents the study of the impact of air- and blood-borne pathogens and the role of the human service clinician. Students will review the theory and technique for effectively addressing issues of alcohol and drug use for the at-risk person and the issues of risk of exposure for the drug abusing individual. Physiology, epidemiology, risk assessment, legal/ethical issues and societal implications of HIV and other pathogens will be presented. This course is appropriate for students of any discipline but is approved by the DSHS/DASA for state chemical dependency counselor qualification.

ADST 304. PSYCHOLOGY OF ADDICTION. 3 Credits.
This course develops knowledge and functional understanding of the psychology of addiction as supported by the most recent professional theories being presented to date. The concepts of the destructive behaviors associated with addictions of all types are explored. Some to be included will be chemicals, gambling, food, sex, relationship, work, and exercise. This course will explore the ideas of causality and social implication in addictions. The history of our nation in regards to addictions is also a topic of discussion. The various approaches to treatment, alternatives, and social issues are investigated.

ADST 308. CULTURAL ISSUES IN ADDICTION TREATMENT AND BEHAVIORAL HEALTH. 4 Credits.
Pre-requisites: ENGL 101.
Satisfies: cultural and gender diversity university graduation requirement. Students examine issues regarding the treatment of persons from different cultural and ethnic backgrounds – persons with disabilities (physical, cognitive), GLBTQ individuals, women and the elderly – by the mainstream culture of the U.S. in health care, addiction treatment, educational settings and other social venues.

ADST 310. GLOBALLY SPEAKING: WHAT ABOUT DRUGS?. 4 Credits.
Pre-requisites: ENGL 101 or permission of instructor.
Satisfies: international studies university graduation requirement. This course explores complex global issues of drugs, where illegal drugs come from, who is producing and/or selling these drugs and who is buying them. Also, the course compares the drug policies of other countries and some experiences countries outside the United States are having with drug legalization.

ADST 350. ADDICTION STUDIES PRACTICUM SEMINAR. 1 Credit.
Notes: graded Pass/Fail.
Pre-requisites: ADST 308 and ADST 412 or permission of instructor. This course prepares students to enter into the ADST practicum experience. Students make application to practicum, obtain proper state-required paperwork and review practicum assignment.

ADST 385. ADDICTION STUDIES PRACTICUM I. 2 Credits.
Pre-requisites: successful completion of or currently enrolled in ADST 350 or permission of instructor. Students will obtain an opportunity to integrate and develop their knowledge and skills in an appropriate and relevant setting that will assist in their development as addiction treatment or prevention professionals.

ADST 395. INTERNSHIP. 1-3 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Placement in an alcohol/drug prevention or treatment facility to observe and study the application of theory and technique toward generalization to the student’s principal discipline. When the field experience placement is in a state certified alcohol/drug treatment facility, the hours apply toward chemical dependency counselor state certification.

ADST 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
ADST 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary relative to faculty and student interests.

ADST 410. COMMUNITY PREVENTION METHODS. 4 Credits.
This course explores the role the media plays in prevention, such as media advocacy, media literacy, social marketing and social norms marketing. This course will also discuss the requirements for prevention credentialing in Washington state.

ADST 412. PHYSIOLOGY AND PHARMACOLOGY OF ADDICTIONS. 4 Credits.
Pre-requisites: ADST 308 or permission of instructor. This course covers information on the physical impact and the response of the human body to alcohol, psychoactive substances and addictive behaviors through the study of fundamentals of pharmacokinetics, neurological functions and current research findings. Concepts and terminology essential for working on a professional addiction treatment team and for communicating with patients and families are covered. There is special focus on effective intervention strategies for each class of drug and for working with a variety of addictive behaviors.
ADST 420. ALCOHOL/DRUG CASE MANAGEMENT. 4 Credits.
**Pre-requisites:** completion of ADST 302 and ADST 308 or permission of the instructor.
This course builds on the theoretical and technical principles and skills addressed in ADST 302. Thorough review of approaches and philosophies of case management and its essential role in effectively addressing the complexity of multiple-issue recovery, including dual-diagnosis, gender and sexuality issues, suicide and relapse. Includes established national and regional standards of care in treatment planning, record keeping and discharged and aftercare planning.

ADST 430. ADDICTION TREATMENT WITH FAMILIES. 4 Credits.
**Pre-requisites:** ADST 308 or permission of instructor.
This course examines the dynamics of family in relationship to chemical dependency and models of family counseling, including overviews of structural, strategic, transgenerational, growth-oriented, behavioral and solution-focused theories as applied to chemical dependency.

ADST 440. ALCOHOL/DRUG GROUP COUNSELING. 3 Credits.
**WINTER/SPRING Students will review the theoretical foundations of group dynamics and therapy as applied to alcohol/drug treatment clientele. They will explore the design, leadership and applications of therapy groups via a combination of lecture readings and experimental lab activities. Emphasis will be placed on learning to observe, understand and guide the group dynamics as they occur.**

ADST 442. SCREENING AND ASSESSMENT FOR CO-OCCURRING DISORDERS. 4 Credits.
**Pre-requisites:** ADST 308.
This course is designed to assist social work, mental health counseling students and chemical dependency professional trainees (students) in obtaining the skills needed to conduct an accurate substance abuse assessment/evaluation and to determine the appropriate level of treatment by understanding accepted criteria for diagnosis by understanding placement criteria (ASAM), utilizing assessment instruments, analyzing and interpreting data, documenting assessment findings and making appropriate treatment recommendations.

ADST 444. TREATING CO-OCCURRING DISORDERS. 4 Credits.
This class will establish a better understanding of the inherent complexities of co-occurring disorders (COD) and develop a variety of clinical skills necessary in the treatment of COD. We will explore the principles of cognitive-behavioral therapy, solution-focused therapy, motivational enhancement therapy and brief therapy approaches to both substance abuse and mental illness. Selected clinical interventions from each of these evidence-based treatment modalities will be taught and practiced for both group work and individual therapy. Clinical approaches, treatment planning, placement and medications used to treat COD will also be discussed.

ADST 446. BEST PRACTICES IN SUBSTANCE ABUSE AND MENTAL HEALTH INTERVENTION. 4 Credits.
Motivational interviewing (MI) is an effective evidence-based approach to overcoming the factors that keep people from making desired changes in their lives, even after seeking or being referred to professional treatment. The first half of this course reviews the conceptual and research background supporting MI and the Transtheoretical model-stages of change (SOC) and provides practice in implementing the skills involved in their approaches. The second half of this course will be an overview of dialectical behavioral therapy (DBT) and how it can be applied when working with chemically dependent clients. Each of the four skill modules will be covered. Students will also become familiar with techniques such as commitment strategies, diary cards and coaching.

ADST 452. TOPICS IN CONTINUING EDUCATION. 1 Credit.
**Notes:** graded Pass/Fail.
These courses are designed to teach behavioral health, chemical dependency, and healthcare providers with legal responsibilities for the assessment, management and care of consumers/patients.

ADST 460. LAW AND ETHICS FOR ADDICTION PROFESSIONALS. 4 Credits.
Students will be exposed to fundamental and technical study of the law, policy, malpractice and liability regarding chemical dependency prevention and treatment practice. Strong focus will be on the contemporary issues of the field relative to current policy and the development of professional knowledge and skills that support ethical and effective practice.

ADST 462. ADOLESCENT ADDICTION ASSESSMENT AND TREATMENT. 4 Credits.
**Pre-requisites:** ADST 308 or permission of instructor.
This course emphasizes the unique developmental stages of adolescence and ways in which substance use/abuse/dependency harm the adolescent’s worldview. Various methods used when providing interventions and treatment are explored along with assessment requirements specified by the state. This course expands the issues of the family system as context for recovery using traditional resources and innovative approaches in adolescent chemical dependency treatments.

ADST 464. RELAPSE PREVENTION. 2 Credits.
Pre-requisites: ADST 308 or permission of instructor.
This class will investigate that process by examining the principles and procedures of relapse prevention therapy. It will also focus on the developmental model of recovery to explore major causes of relapse in each stage of recovery. Another major focus of this class will be to address client relationship with family, employment, education, spirituality, health concerns, and legal needs.

ADST 482. SUICIDE ASSESSMENT, TREATMENT AND MANAGEMENT. 4 Credits.
**Pre-requisites:** ADST 308 or permission of instructor.
Students will be exposed to fundamental and technical study of the law, policy, malpractice and liability regarding chemical dependency prevention and treatment practice. Strong focus will be on the contemporary issues of the field relative to current policy and the development of professional knowledge and skills that support ethical and effective practice.

ADST 484. SUICIDE PREVENTION. 3 Credits.
**Pre-requisites:** ADST 300.
Students examine a brief history of suicidal beliefs and explore present-day suicidal issues that are considered a public health problem. The goals, objectives and strategies of the Surgeon General’s National Strategy for Suicide Prevention and the public health model are discussed in an effort to provide students with tools to examine current programs, media literacy, barriers treatment and research, and cultural & social factors of suicide prevention.
ADST 485. ADDICTION STUDIES PRACTICUM II. 2 Credits.
Pre-requisites: ADST 350 or permission of instructor.
Students will build on experience and strengths developed in Practicum I to prepare them to work independently in the addiction or prevention field.

ADST 490. ADST SENIOR CAPSTONE. 4 Credits.
Pre-requisites: senior standing and declared major in Interdisciplinary Studies Addiction Studies or permission of program director.
Satisfies: senior capstone university graduation requirement.
This course covers the eight Practice Dimensions and Transdisciplinary Foundation knowledge that is the ideal standard the addiction counselor strives to master. Students who plan to move forward with WA state licensure as Chemical Dependency Professionals gain a cumulative summary of the above practice dimension skills, knowledge and attitudes that accomplished counselors strive to master. For the final project students have the opportunity to take a practice examination that mimics the NAADAC required exam for Level II counselors.

ADST 495. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Placement in an alcohol/drug prevention or treatment facility which supports the opportunity to learn knowledge and skill by providing direct service. Regular seminars are held for processing and integrating concepts and techniques and addressing professional issues. When the practicum placement is in a state certified alcohol/drug treatment facility, the hours apply toward chemical dependency counselor qualification.

ADST 496. EXPERIMENTAL COURSE. 1-5 Credits.
ADST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-4 Credits.
Subjects vary according to faculty and student interest.
ADST 498. SEMINAR. 1-5 Credits.
ADST 499. DIRECTED STUDY. 1-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ADST 501. RELAPSE PREVENTION. 2 Credits.
Relapse is not a single event but a process that takes place over time. This class will investigate that process by examining the principles and procedures of relapse prevention therapy. It will also focus on the developmental model of recovery to explore major causes of relapse in each stage of recovery. Another major focus of this class will be to address client relationship with family, employment, education, spirituality, health concerns and legal needs.

ADST 502. COUNSELING THEORIES FOR ADDICTION PROFESSIONALS. 2 Credits.
This course is intended to provide students with specific counseling theory information necessary to meet state requirements for Chemical Dependency Professional certification.

ADST 504. ADOLESCENT ADDICTION ASSESSMENT AND TREATMENT. 4 Credits.
This course will emphasize the unique developmental stages of adolescence and the ways in which substance use/abuse/dependency harm the adolescent’s worldview. The various methods used when providing interventions and treatment will be explored along with assessment requirements specified by the state. This course will expand the issues of the family system as context for recovery using traditional resources and innovative approaches in adolescent chemical dependency treatments.

ADST 505. ADDICTION GROUP COUNSELING. 2 Credits.
Notes: taught online.
Pre-requisites: graduate standing.
Theoretical foundations of group dynamics and counseling as applied to addiction treatment clientele. Explore the design, leadership and applications of group counseling via a combination of readings, video presentations, case studies and class discussions. Emphasis on learning to observe, understand, guide and facilitate the group dynamics as they occur.

ADST 512. PHARMACOLOGICAL ACTIONS OF ALCOHOL AND OTHER DRUGS. 4 Credits.
Students will review the physical impact and the response of the human body to alcohol and other drugs of abuse through study of the fundamentals of pharmacokinetics, neurologic functioning and current research findings. They will also learn concepts and terminology essential for working on a professional treatment team and for communicating with patients and families. There will be special focus on effective intervention strategies for each class of drug.

ADST 520. CASE MANAGEMENT. 4 Credits.
This course provides a thorough review of approaches and philosophies of case management and its essential role in effectively addressing the complexity of multiple-issue recovery, including dual-diagnosis, gender and sexuality issues, suicide and relapse. Includes established national and regional standards of care in treatment planning, record keeping and discharged and aftercare planning.

ADST 530. ADDICTION TREATMENT WITH FAMILIES AND DIVERSE POPULATIONS. 4 Credits.
This course uses the Addiction Counseling Competencies to explore the complex issues of family in relation to addiction and models of family counseling. Additionally, this class will include information on diverse cultures, to incorporate the relevant needs of culturally diverse groups, as well as people with disabilities, into clinical practice.

ADST 535. LAW AND ETHICS FOR ADDICTION PROFESSIONALS. 4 Credits.
Students will be exposed to fundamental and technical study of the law, policy, malpractice and liability regarding chemical dependency prevention and treatment practice. Strong focus will be on the contemporary issues of the field relative to current policy and the development of professional knowledge and skills that support ethical and effective practice. Application of ethics for chemical dependency clinicians.

ADST 542. SCREENING AND ASSESSMENT OF CO-OCCURRING DISORDERS. 4 Credits.
This course is designed to assist the Master-level Social Worker, mental health counseling student and chemical Dependency Professional Trainee (students) in obtaining the necessary skills needed to conduct an accurate substance abuse assessment/evaluation and determine appropriate level of treatment. Further, the student will gain an understanding of mental health diagnosis utilizing screening, assessment and diagnostic tool. Students will explore specific skills such as building rapport, gathering data, determining the client’s readiness for change, understanding accepted criteria for diagnosis (DSM IVTR), understanding placement criteria (ASAM), utilizing assessment instruments, analyzing and interpreting data documenting assessment findings and making appropriate treatment recommendations.
ADST 544. TREATING CO-OCCURRING DISORDERS. 4 Credits.
This class will establish a better understanding of the inherent complexities of co-occurring disorders (COD) and develop a variety of clinical skills necessary in the treatment of COD. We will explore the principles of Cognitive-Behavioral Therapy, Solution-Focused Therapy, Motivational Enhancement Therapy and Brief Therapy approaches to both substance abuse and Mental Illness selected clinical interventions from each of these evidenced-based treatment modalities will be taught and practiced for both group work and individual therapy. Clinical approaches, treatment planning, placement and medications used to treat COD will also be discussed.

ADST 546. BEST PRACTICE INTERVENTION. 4 Credits.
Motivational interviewing (MI) is an effective evidence-based approach to overcoming the factors that keep people from making desired changes in their lives, even after seeking or being referred to professional treatment. The first half of this course reviews the conceptual and research background supporting MI and the transtheoretical model-stages of change (SOC) and provides practice in implementing the skills involved in their approaches. The second half of this course will be an overview of dialectical behavioral therapy (DBT) and how it can be applied when working with chemically dependent clients. Each of the four skill modules will be covered. Students will also become familiar with techniques such as commitment strategies, diary cards and coaching.

ADST 561. SPECIAL TOPICS. 1-4 Credits.
Various topics of concern to addiction professionals in the field of addiction treatment and prevention will be presented to educate students about emerging or recurring issues and concerns.

ADST 562. SUICIDE ASSESSMENT, TREATMENT AND MANAGEMENT. 4 Credits.
Cross listed: SOWK 562.
Pre-requisites: graduate standing.
This course explores the theoretical foundation in the clinical assessment, treatment and management of suicidal risk over time through case management with suicidal persons. Additionally, we will review instructions in “evidenced-based” and “best practices” for the treatment and case management with the suicidal person within the scope of practice. We also have role play exercises that include therapeutic interventions, initial treatment planning including case notes, coordination of services and referral.

ADST 595. ALCOHOL/DRUG PRACTICUM I. 1-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual learning and career development course with placement in an alcohol/drug treatment or prevention facility coordinated through the Addiction Studies Program.

ADST 596. EXPERIMENTAL. 1-5 Credits.

ADST 695. ALCOHOL/DRUG PRACTICUM II. 1-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual learning and career development course with placement in an alcohol/drug treatment or prevention facility. Placement in an alcohol/drug treatment or prevention facility supports the opportunity to learn knowledge and skills by providing direct service with agency supervision. Regular seminars are held for processing and integrating concepts and techniques and addressing professional issues. When practicum placement is in a state certified alcohol/drug treatment facility, the hours may also apply toward chemical dependency counselor state certification.

Africana Studies (AAST)

AAST 101. INTRODUCTION TO AFRICANA STUDIES. 5 Credits.
This course is a critical survey of the major themes, issues, concepts, methods, philosophies, theories and scholars in the discipline of Africana studies and its historic origin and evolution.

AAST 196. EXPERIMENTAL COURSE. 1-5 Credits.

AAST 214. AFRICAN AMERICAN CULTURE AND EXPRESSIONS. 5 Credits.
Cross listed: HONS 214, HUMN 214.
Satisfies: cultural and gender diversity university graduation requirement.
An interdisciplinary survey of African American culture beginning with the early African history and traditions through contemporary issues in the African American experience. Attention given to basic principles of history, sociology, political science, economics and the arts in the study of the dynamics of the African American culture.

AAST 215. EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement.
Examines the African American experience from African civilizations in the 4th century AD through slavery to the end of the Reconstruction era in the United States.

AAST 220. AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT. 5 Credits.
Cross listed: HONS 220, HIST 220.
Satisfies: the GECR for social sciences, list 3, history.
The study of African history from the perspective of the African American experience since the end of the Reconstruction period.

AAST 222. AFRICAN AMERICAN ECONOMICS. 5 Credits.
Focuses on the economic conditions of African Americans, presenting an analysis of economic problems confronting them, and institutional aspects of those problems.

AAST 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Studies vary according to faculty and student interest.

AAST 301. HARLEM RENAISSANCE: RECONSTRUCTION TO 1930. 5 Credits.
A selective and objective study of the cultural, ideological, and political contributions of African Americans during the period 1918-1929.

AAST 310. AFRICAN AMERICAN SOCIAL AND INTELLECTUAL THOUGHT FROM BOOKER T. WASHINGTON TO CORNEL WEST. 5 Credits.
Pre-requisites: AAST 214.
This course articulates, defines and analyses the significant social thoughts, strategies and philosophies of black intellectuals through the 20th century to the present as they sought to address and propose viable solutions to the color-line.

AAST 315. AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA. 5 Credits.
Cross listed: HIST 315, HONS 315.
Satisfies: international studies university graduation requirement.
A survey of African history from prehistory to the present. Emphasizes earlier African civilizations, extensive contact with the outside world and the formation of African nations.
AAST 320. AFRICAN AMERICAN FAMILY. 5 Credits.
Cross listed: SOCI 371, SOWK 320.
The African American Family as a social system influenced by institutions of the larger American society.

AAST 321. AFRICAN AMERICAN POLITICAL AWARENESS. 5 Credits.
Issues of African American political power and awareness as they relate to several studies of macro and micro institutional racism with alternatives for racial change.

AAST 331. HISTORY AND DYNAMICS OF U.S. SLAVERY. 2 Credits.
This class involves a brief examination of North American slavery, its background, its dynamics, and its legacy. Special attention will be given to issues regarding U.S. race relations today.

AAST 347. PEOPLES OF AFRICA. 5 Credits.
Cross listed: ANTH 347.
A comparative view of tradition and change in sub-Saharan Africa.

AAST 375. AFRICAN AMERICAN CINEMA: 1915–1990. 5 Credits.
African American cinema explores the history of African Americans in films, focusing particularly on Hollywood’s representations of Blacks in feature length films. The course examines such issues as the representations of race, gender, and sexuality through observing and discussing feature films in class. Great emphasis will be placed on critical viewing, thinking, analyzing and writing about films. Ultimately, the course will not only investigate Hollywood’s representations of African Americans, but also will examine the struggle and emergence of independent, African American produced films which offer a separate and unique voice that not only challenges Hollywood’s representations, but also expresses themes involving cultural identity.

AAST 381. CONTEMPORARY AFRICAN AMERICAN LITERATURE. 5 Credits.
Cross listed: ENGL 381.
Major African American literature of the 20th century: fiction, poetry, essay, autobiography and drama.

AAST 395. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Internships vary according to program and student interest.

AAST 396. EXPERIMENTAL COURSE. 1-5 Credits.

AAST 399. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: sophomore standing: permission of the instructor, department chair and college dean.
Studies vary according to faculty and student interest.

AAST 424. ECONOMICS OF POVERTY AND DISCRIMINATION. 5 Credits.
Cross listed: ECON 424, WMST 426.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
Causes of poverty and evaluation of anti-poverty programs. Examines economic theories of discrimination from different perspectives with a particular focus on issues of gender and race.

AAST 430. AFRICAN AMERICAN WOMEN’S HISTORY. 5 Credits.
Cross listed: WMST 430.
Pre-requisites: ENGL 201.
This course examines historical writings by and about Black women, discussing slavery, lynching, combating prejudices and encouraging racial pride to provide a framework that will deepen understanding of the topic.

AAST 435. NEGRO SPIRITUALS. 1 Credit.
This course offers an immersion in the music and culture of enslaved Africans to understand how and why the music developed. The purpose of the music then and now is examined as well as its impact on modern music.

AAST 465. SLAVERY IN THE NEW WORLD. 5 Credits.
Cross listed: HIST 465.
This course traces new world slavery from its origins in the islands off the west coast of Africa to the end of slavery in United States, Cuba and Brazil in the late nineteenth century. Topics covered include the Atlantic slave trade, the effects of the slave trade on Africa, the Haitian Revolution, slavery and the Enlightenment philosophies, the profitability of slavery and the abolition movement.

AAST 466. SLAVERY IN THE U.S.. 5 Credits.
Cross listed: HIST 466.
This course covers the rise and fall of slavery in the United States and its colonial antecedents. Topics include the transition from indentured servitude to slavery in the Chesapeake in the 1680s, the role slaves played on both sides of the Revolutionary War, the rise of the Cotton Kingdom, the political controversy over slavery, the rise of the abolition movement and the disintegration of slavery during the Civil War.

AAST 481. DR. KING AND MALCOLM X: A COMPARISON. 2 Credits.
This class involves a brief examination into the backgrounds, lives and careers of Dr. King and Malcolm X. Comparison and contrast will be employed to gain a deeper insight into the ideology and effectiveness of each leader with regard to the civil rights movement.

AAST 495. AFRICANA STUDIES INTERNSHIP. 1-5 Credits.
Notes: graded Pass/Fail.
Pre-requisites: junior standing: permission of the instructor, department chair and college dean.
This course requires a supervised student practicum in the internal or external African or African American endeavor. May be but not limited to designing or working on a particular project or event for the betterment of an aspect of the African or African American lived experience on campus or in the surrounding area.

AAST 496. EXPERIMENTAL COURSE. 1-15 Credits.

AAST 497. AFRICANA STUDIES WORKSHOP. 1-5 Credits.
Workshops are held to examine issues in this area.

AAST 498. SEMINAR. 1-5 Credits.

AAST 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Directed study and research projects vary according to faculty and student interest.

Aging Studies (AGST)

AGST 310. MULTIDISCIPLINARY STUDIES IN AGING. 5 Credits.
Required of all students in the minor, this course draws upon a number of disciplines and fields (primarily biology, psychology, social work, sociology, economics, nutrition and dietetics, and ethnic perspectives) to provide a balanced view of both normal and problem aspects of aging. Presents theoretical issues and aspects of aging as well as programs, services and issues involved in working with older persons.
AGST 399. SPECIAL STUDIES. 1-5 Credits.

AGST 410. MINORITY PERSPECTIVES IN AGING. 3 Credits.  
Pre-requisites: AGST 310 or special permission of the instructor. Required of all students in the minor, this course is oriented toward a critical examination of the variations in aging experiences of minority elderly in the United States. Its focus is on the most salient themes, orientations and dimensions of the problems and processes of aging in the broader cultural tradition within each ethnic minority group. Particular attention paid to biological, material and historical bases of such dimensions, regional variations among populations and the effects of such past events as conquest and colonialism.

AGST 455. SOCIAL POLICY AND PROGRAMS IN AGING. 3 Credits.  
Cross listed: SOWK 455. Pre-requisites: AGST 310 or permission of the instructor. Social welfare policies and programs serving the aging are examined, past and present, in terms of their overall impact on the aged and on society at large. The needs and gaps in services to the aged are evaluated, as well as the adequacy with which these services are delivered and the response of programs and services to the changing needs of the aged.

AGST 456. THE OLDER WOMAN. 4 Credits.  
Cross listed: SOWK 456, WMST 456. Pre-requisites: junior standing. This course examines the research and practice knowledge on the social, economic and health problems confronting older women. Older women’s needs and potential for change are considered. The course explores U.S. social policy and program alternatives that work to improve the status and quality of life for a growing and diverse population of older women.

AGST 457. CLINICAL ASSESSMENT IN MIDLIFE AND OLDER ADULTS. 4 Credits.  
Cross listed: SOWK 457. Pre-requisites: junior standing or permission of instructor. An introduction to the assessment skills required for professional social work practice in mental health and other clinical settings dealing with the elderly. The course is intended for social work practitioners.

AGST 458. PERSPECTIVES ON DEATH AND DYING. 4 Credits.  
Cross listed: SOWK 458. This course is designed to assist students in the helping professions who wish to work with the terminally ill. Focus will be on an increased ability to deal with one's own mortality; the development of beginning skills for working with the terminally ill and their families; an understanding of the complex social system which surrounds death in modern America; as well as the current moral, ethical and philosophical issues in the field.

AGST 496. EXPERIMENTAL COURSE. 1-5 Credits.

AGST 499. DIRECTED STUDY. 1-5 Credits.

American Sign Language (ASL)

ASL 376. SIGN LANGUAGE I. 3 Credits.

ASL 377. SIGN LANGUAGE II. 3 Credits.  
Pre-requisites: ASL 376 or permission of the instructor. Further instruction in the development of expressive and receptive skills in American Sign Language, development of more advanced vocabulary and the use of space and expression as a part of the linguistic form of this visual language. Includes exploration into the structure of the deaf culture.

ASL 378. SIGN LANGUAGE III. 3 Credits.  
Pre-requisites: ASL 376, ASL 377 or permission of the instructor. Further instruction in the development of expressive and receptive skills in American Sign Language, development of more advanced vocabulary and the use of space and expression as a part of the linguistic form of this visual language. Includes exploration into the structure of the deaf culture.

Anthropology (ANTH)

ANTH 101. CULTURAL ANTHROPOLOGY. 5 Credits.  
Satisfies: the GECR for social sciences, list 2, anthropology, geography, psychology and sociology. An introduction to the study of man with principal emphasis on culture.

ANTH 161. INTRODUCTION TO CHICANO CULTURE. 5 Credits.  
Cross listed: CHST 101. Satisfies: cultural and gender diversity university graduation requirement. A study of Chicano culture providing an initial overview of its roots and conflicts. Specific components discussed are cultural identity, customs, language, psychology and the arts.

ANTH 195. INTERNSHIP. 1-5 Credits.

ANTH 197. FRESHMAN SEMINAR. 2 Credits.

ANTH 201. LATINAS/OS IN CONTEMPORARY AMERICAN SOCIETY. 5 Credits.  
Cross listed: CHST 201. Satisfies: cultural and gender diversity university graduation requirement. The following course examines the experience of the other Latinos (Hispanics) in the United States: Puerto Rican, Cuban American and Central Americans. The course presents a brief historical overview of their entrance in American society and a demographic comparison of significant socio-economic variables of the groups. The primary focus of the course is to examine the social and cultural profile of the Puerto Rican, Cuban and Central American groups in the U.S. The course covers historical, social and cultural themes, which include the impact of American institutions on identity, culture, language, the family and the future implications of immigration from Latin America.

ANTH 202. HUMAN EVOLUTION. 5 Credits.  
Satisfies: a GECR for natural science—anthropology. This course examines the biological process of evolution as it applies to humans and their recent ancestors; it does not debate the existence of evolutionary processes. Students learn about major events in human evolution and key fossil evidence that reflects them, including the development of bipedalism, increase in size and complexity of the human brain, increasing use of cultural solutions to respond to biological pressures, and nature and extent of ongoing human microevolution.

ANTH 203. PHILOSOPHY OF CULTURE. 5 Credits.  
Satisfies: a GECR for humanities and fine arts, List 3, philosophy and reasoning. This course approaches culture as a contestable set of practices, relationships and beliefs and look at them from a variety of philosophical perspectives. A major goal of the course is for students to learn to reflect on their everyday lives and gain new perspectives on how they think, interact with others and work. A secondary goal is for students to gain a better understanding of the importance "of philosophy for social theory."
ANTH 204. ARCHAEOLOGICAL SCIENCE. 5 Credits.
Satisfies: a GECR for natural science–anthropology.
Archaeology provides a useful case study for the practical application of natural science knowledge in support of the needs of disciplines both within and without the broader natural sciences. Students explore the archaeological sciences of remote sensing and probabilistic surveying, radiometric and isotope dating, fauna/flora analysis, climate reconstruction and change, reconstruction of subsistence patterns and population health, mortality and movements among others.

ANTH 296. EXPERIMENTAL COURSE. 1-5 Credits.

ANTH 299. SPECIAL STUDIES. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ANTH 301. PRINCIPLES OF ARCHAEOLOGY. 5 Credits.
A comprehensive survey of the field of archaeology which will introduce students to the methods of field excavation and reconstruction employed by scientific archaeologists in the reconstruction of prehistoric cultures.

ANTH 302. VISUAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
The varied forms of communication are an essential aspect of human diversity. This course explores ethnographically how visual forms—from traditional ritual and performance to modern television and industrial design—communicate sociocultural ideas and practices.

ANTH 310. SILK ROAD AND CENTRAL ASIA. 3 Credits.
An ethnographic survey of societies in the Eurasian region including Russia, Mongolia, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Turkmenistan and China, emphasizing post-socialist development.

ANTH 320. MIDDLE EASTERN HISTORY AND CULTURE. 5 Credits.
Cross listed: GEG 320, HIST 320.
Examines the various ethnic, religious and national communities of the Middle East in historical and contemporary context.

ANTH 336. GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST. 5 Credits.
Cross listed: GEG 336/HIST 336.
Examines the Middle East and its various ethnic, political, economic, religious and environmental conflicts from a geographic perspective. The course’s holistic combination of geographic and anthropological inquiry will offer insights into how the natural environment and built environment interact and engage with the cultural and political landscapes of the Middle East.

ANTH 342. TRIBES, BANDS AND CHIEFDOMS. 5 Credits.
Cross listed: HONS 342.
Satisfies: international studies university graduation requirement.
Approaches to understanding non-state societies and an examination of how their cultures contrast with each other and with our own way of life.

ANTH 345. PHYSICAL ANTHROPOLOGY. 5 Credits.
An introduction to the origin, genetic adaptation, and evolution of living and extinct humans.

ANTH 347. PEOPLES OF AFRICA. 5 Credits.
Cross listed: AAST 347.
A comparative view of tradition and change in sub-Saharan Africa.

ANTH 348. PEASANT SOCIETIES. 5 Credits.
Satisfies: international studies university graduation requirement.
World survey of what it means to be a peasant; relationship between communities and larger political wholes; revolutionary and protest movements and their future prospects.

ANTH 349. MAJOR CIVILIZATIONS OF ASIA. 5 Credits.
Cross listed: HONS 349.
Satisfies: international studies university graduation requirement.
An ethnographic survey of Japan, China, Islam and India, emphasizing the core values of each.

ANTH 355. INDIANS OF NORTH AMERICA. 5 Credits.
Cross listed: HONS 355.
Satisfies: cultural and gender diversity university graduation requirement.
A comparative overview of distinctive Indian cultures. Opportunities for individual research provided.

ANTH 356. ARCHAEOLOGY OF NORTH AMERICA. 5 Credits.
The pre-Columbian history of America north of the Valley of Mexico.

ANTH 357. PEOPLES OF LATIN AMERICA. 5 Credits.
Cross listed: HONS 357.
Satisfies: international studies university graduation requirement.
An ethnographic survey of contemporary cultures of Central and South America, including both aboriginal and peasant societies. Emphasis is placed on the merging and clashing of European, Indian and African, rich and poor and the continuing character of these conflicts into the present.

ANTH 358. MEDICAL ANTHROPOLOGY. 5 Credits.
Cross listed: HONS 358.
Satisfies: international studies university graduation requirement.
This course offers an understanding of the anthropology of medicine, curing versus healing, the concept of biomedicine and its role in today’s world and other perspectives on medicine and medical practice. A review of folk and professional medical systems will be included.

ANTH 366. REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD. 5 Credits.
Cross listed: HONS 366.
Satisfies: international studies university graduation requirement.
This course explores the alternative models available for understanding rapid cultural change in a worldwide array of postcolonial countries. Emphasis is placed on the historical origins of ethnic, nationalist and class conflict in local regions as studied by anthropologists. Opportunities are made available for pursuing students’ regional interests.

ANTH 375. ANTHROPOLOGY OF SCIENCE AND TECHNOLOGY. 5 Credits.
This course offers an ethnographic understanding of the culture of scientific practice and technology. Case studies explore culture within the context of the medical and natural sciences, biotechnology and virtual worlds, both in the U.S. and abroad.

ANTH 396. EXPERIMENTAL COURSE. 1-5 Credits.

ANTH 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ANTH 398. SEMINAR. 1-5 Credits.

ANTH 399. SPECIAL STUDIES. 1-15 Credits.
Pre-requisites: permission of the instructor and the department chair and college dean.

ANTH 401. ANTHROPOLOGICAL RESEARCH METHODS. 5 Credits.
A review of anthropological methods for the collection and analysis of cultural data.

ANTH 405. CRITICAL ANALYSIS IN ANTHROPOLOGY. 3 Credits.
Pre-requisites: ANTH 101 and ENGL 201.
This course focuses on practicing and improving critical analytical skills through the study and discussion of various genres of anthropological literature and through guided writing assignments.
ANTH 432. ANTHROPOLOGY OF GENDER. 4 Credits.
Cross listed: WMST 432.
Satisfies: cultural and gender diversity university graduation requirement.
This course examines notions of sex and gender from a cross-cultural perspective. Material covered includes understandings of gender, third genders, human sexuality and the gendered nature of activities in both non-Western and Western societies.

ANTH 434. AID AND DEVELOPMENT. 5 Credits.
Pre-requisites: choose one of the following—ANTH 101, ANTH 348, ANTH 366 or permission of instructor.
This course is designed to problematize understandings of poverty, aid and development by examining the intersection of the global free market economies with those communities historically referred to in the literature as ‘poor.’ Students explore how aid and development has been marshaled to alleviate or eliminate economic poverty and structural inequality.

ANTH 435. IRISH HISTORY AND CULTURE. 5 Credits.
Cross listed: HIST 435.
This course examines various aspects of Irish history and culture from prehistory to the present. Attention is given to religious, social, cultural, economic and political institutions and developments.

ANTH 436. POLITICS OF CULTURE: ISRAEL AND PALESTINE. 5 Credits.
Cross listed: GEOG 436/HIST 436.
Examines the role of culture in the political struggles between Israelis and Palestinians. Explores the influence of national, religious, ethnic and historical narratives in the conceptualization of the Israeli-Palestinian conflict. This course will consider how a detailed knowledge of these ‘politics of culture’ can provide meaningful insights to potential avenues of cultural reconciliation and, ultimately, a more peaceful environment for Israelis and Palestinians.

ANTH 437. WOMAN AND ISLAM. 5 Credits.
Cross listed: GEOG 437/HIST 437/WMST 437.
Pre-requisites: junior or senior standing.
This course examines the status and identity of women in Islamic communities throughout the world and assesses how different interpretations of Islam, as a simultaneous religious, social, cultural, political and economic system, influences perceptions of women within Islamic communities. It further considers the perceptions of Islam vis-à-vis women and Islamic women themselves by non-Muslim communities.

ANTH 438. PEACE, VIOLENCE AND CULTURE. 5 Credits.
Cross listed: GEOG 438/HIST 438.
Pre-requisites: junior or senior standing.
This course is a collective exercise in critical thinking on the intersection and interaction of peace, violence and culture. It explores the cultural dimensions of peace and violence, including the role of culture in defining and understanding the manifestation and enactment of peace and violence both by and against individuals as well as groups.

ANTH 439. TOPICS IN ANTHROPOLOGY. 1-5 Credits.
This course is a variable topics course exploring current interests and specific research foci in each of the four sub-fields of anthropology. Topics might include anthropological perspectives on contemporary issues; current research interests of specific faculty; further investigation of sub-topics included in large survey courses.

ANTH 444. DEVELOPMENT OF ANTHROPOLOGICAL THEORY. 5 Credits.
Pre-requisites: ANTH 101.
Introduction to the development of theoretical anthropology which surveys alternative theories concerning man and culture.

ANTH 445. ANTHROPOLOGICAL LINGUISTICS. 5 Credits.
An anthropological perspective on language, incorporating an examination of contemporary approaches to phonology and syntax with an emphasis on language in culture.

ANTH 446. SOCIOLINGUISTICS. 3 Credits.
The course deals with language in its social setting. It examines linguistic variation in relation to social status and interactional context. The political implications of linguistic variation are also considered.

ANTH 448. ANTHROPOLOGY OF FOOD AND NUTRITION. 5 Credits.
This course explores the diversity of human foodways and their ecological, cultural and social significance.

ANTH 450. CULTURAL ECOLOGY. 5 Credits.
Cross listed: HONS 450.
Satisfies: international studies university graduation requirement.
The relationship between man, nature and culture is contrasted in food collecting, simple farming and technologically more complex cultures.

ANTH 452. ARCHAEOLOGICAL FIELD TECHNIQUES. 5 Credits.
Archaeological theory and method with emphasis on excavation procedures and skills and laboratory analysis. Opportunity for limited field experience.

ANTH 454. MYTH, MAGIC AND RITUAL. 5 Credits.
Cross listed: HONS 454.
This course explores myth, magic and ritual as they relate to religion, philosophy and science, both in western and non-western, urban and non-urban contexts.

ANTH 455. ARCHAEOLOGY OF MESO-AMERICA. 5 Credits.
The pre-Columbian history of Mexico, Central America, and Western South America.

ANTH 456. WORLD ARCHAEOLOGY. 5 Credits.
This course provides a global review of archaeology beginning with the appearance of the first hominids (the Australopithecines) through the beginnings of agriculture and the advent of social stratification and culturally complex civilizations. Topics will include an overview of human evolution, the first humans and their hunting-gathering lifestyles, the increasing specialization of hunter-gatherers and the dawn of horticulture-agriculture.

ANTH 457. WITCHCRAFT, SORCERY AND SHAMANISM. 5 Credits.
An anthropological study of the cultural significance of witchcraft, sorcery, spirit possession, and shamanism.

ANTH 458. FAIR TRADE, COFFEE AND SOCIAL JUSTICE. 2 Credits.
Cross listed: HONS 458.
This class explores the Fair Trade movement, using coffee as a lens. Topics include how the Fair Trade system has worked, debate over the Fair Trade system as a social movement and an alternative market.

ANTH 459. ARCHAEOLOGICAL LAB ANALYSIS. 5 Credits.
Pre-requisites: choose one of the following—ANTH 301, ANTH 452, ANTH 524 or permission of the instructor.
This archaeological laboratory course provides students with a foundation in post-excavation analysis. The course broadly covers various analytical methodologies, with particular attention to regional assemblages housed at Eastern Washington University. Students are provided with an opportunity to gain experience in different analysis techniques used to study an assemblage after it is brought in from the field and incorporate that data into a discussion of larger archaeological and anthropological issues.
ANTH 460. FORENSIC ANTHROPOLOGY. 5 Credits.
Pre-requisites: restricted to students majoring in Anthropology, Criminal Justice or Chemistry with Forensic Science option, or permission of instructor.
This course is an overview of osteology, human taphonomy and personal identification from skeletal remains, particularly as they are applicable to law enforcement situations. Most class periods will be a combination of lecture and laboratory work.

ANTH 462. ECONOMIC ANTHROPOLOGY. 5 Credits.
Pre-requisites: choose one of the following—ANTH 101, ECON 100, ECON 200, ECON 201 or permission of the instructor.
This course examines the economic behavior of people around the world, paying particular attention to the different systems of production, consumption and exchange that operate throughout the world. The goal of the course is to situate the study of markets, commodities and money into a larger cross-cultural context by exploring relations of power, kinship, gender, exchange and social transformation.

ANTH 463. COMMUNITY PROJECTS. 5 Credits.
In this course students will learn methodologies and techniques used in applied anthropology. They will then put their anthropological knowledge and field techniques to use in applied anthropology projects in the community.

ANTH 490. SENIOR CAPSTONE. 4 Credits.
Satisfies: senior capstone university graduation requirement.
This course joins together the diverse sub-fields and eclectic viewpoints of anthropology and its supporting disciplines with the aim of clarifying anthropology’s practical uses. It seeks the principles and applications which the field as a whole needs in order to communicate with other institutions and with society at large. We explore the implicit social criticism anthropology offers to western culture and to its own place within it. The course presents an array of career possibilities, together with a wide range of practical applications for anthropological knowledge. Guest lectures, discussion, group work and their own presentations challenge students to relate their special interests to the larger issues of the human sciences and their meanings for people.

ANTH 493. PORTFOLIO ASSESSMENT. 1 Credit.
Pre-requisites: senior standing.
Advised by a member of the Anthropology faculty, the student compiles an assessment portfolio of academic assignments completed in anthropology courses at EWU. Taken during the term in which the student expects to complete the requirements for the bachelor’s degree in anthropology, this independent study course provides the student with an opportunity to undertake guided academic/career planning as well as to participate in summative assessments.

ANTH 495. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ANTH 496. EXPERIMENTAL COURSE. 1-5 Credits.

ANTH 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Special short-term programs of varying content, usually involving field work problems.

ANTH 498. DEPARTMENTAL SEMINAR. 1-5 Credits.
Selected topics in anthropology.

ANTH 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent study in selected areas of anthropology.

ANTH 501. SEMINAR IN ARCHAEOLOGICAL AND PHYSICAL ANTHROPOLOGY. 4 Credits.
This course explores the intersection and interaction of archaeological and physical anthropology and clarifies how synthesizing the unique elements within each subfield enable improved practice in applied anthropology. The course will address the current state of each subfield within applied anthropology and connect this to the more traditional academic body of work in anthropology.

ANTH 502. SEMINAR IN LINGUISTIC AND CULTURAL ANTHROPOLOGY. 4 Credits.
This course explores the intersection and interaction of archaeological and physical anthropology and clarifies how synthesizing the unique elements within each subfield enable improved practice in applied anthropology. The course will address the current state of each subfield within applied anthropology and connect this to the more traditional academic body of work in anthropology.

ANTH 510. THEORIES OF APPLIED ANTHROPOLOGY. 5 Credits.
Applied anthropology is the use of anthropological perspectives, values, data, theories, methods, techniques, and skills for practical purposes. Anthropology has become an essential working tool in many contexts from the environment and human health to economic development and heritage management. This course is an introduction to the way that explanations of Applied Anthropology have emerged from the tradition of anthropological theory. It examines the theoretical frameworks of the discipline, particularly in the way that those frameworks have inspired anthropologists to apply disciplinary explanations and methods to social needs and problems.

ANTH 522. RESEARCH DESIGN. 3 Credits.
Cross listed: GEOG 522.
Provides for the continued development of a practical toolkit with which to conduct applied social science research. Addresses research design elements necessary in areas such needs assessments and program evaluations through techniques such as participatory research, action research, evaluation, assessment and surveying. The course covers development of research proposals for independent, grant funded or contract designs.

ANTH 523. RESEARCH METHODS IN APPLIED ANTHROPOLOGY. 5 Credits.
This class helps students build a toolkit with which to conduct applied anthropological research. Specifically, the course endeavors to prepare students to become comfortable with the language of applied anthropology in terms of research objectives (needs assessments, program evaluations, etc.) and techniques like rapid appraisals, participatory research and action research. Students will practice the most important anthropological research methods, including participant observation, structured and unstructured interviews, and archival research, in order to be prepared for future independent research projects.

ANTH 524. ARCHAEOLOGICAL FIELD SCHOOL. 5-10 Credits.
This course offers students hand-on experience in archaeological excavation techniques and methods through a formal field school setting. Over the course of several weeks, students will gain practical experience in field survey, excavation, stratigraphic interpretation, data collection and management and associated archaeological field skills. Depending on the nature of the site and excavations scheduled for a particular year, students may have opportunities for limited archaeological laboratory analysis and visitation to other local archaeological sites.
ANTH 525. DATA ANALYSIS AND VISUALIZATION. 3 Credits.
Cross listed: GEOG 525.
Pre-requisites: ANTH 522 or GEOG 522.
This course introduces students to data analysis and data visualization. In particular, students will learn basic data analysis approaches, explore their use and apply them to qualitative and quantitative data sets. In addition students will synthesize the results of their data analysis into a variety of data visualization formats.

ANTH 530. FIELD RESEARCH: LAWS AND ETHICS. 2 Credits.
This course includes topics such as establishing rapport with individuals and communities, the ethical dilemmas faced in fieldwork, professional conduct, legal obligations of practicing anthropologists and conflict management that are the sort of skills and tools necessary for the day-to-day practice of applied anthropology. The Field Preparation Seminar provides students a foundation for coursework such as Community Engagement and Community Projects as well as for future anthropological fieldwork.

ANTH 531. COMMUNITY ENGAGEMENT I. 3 Credits.
Pre-requisites: ANTH 530.
First of two courses dedicated to a case study approach of examining ways of engaging community issues through applied anthropology. Explores problems and problem-solving as defined by anthropologists, leaders and community members themselves, and place them into different theoretical, methodological and programmatic frameworks. Ultimately, considers how faculty, graduate students and community members might work together to identify and analyze community problems as well as develop solutions to those problems.

ANTH 532. COMMUNITY ENGAGEMENT II. 3 Credits.
Pre-requisites: ANTH 530 and ANTH 531.
Second of two courses dedicated to a case study approach of examining ways of engaging community issues through applied anthropology. Specifically, this course examines secondary forms of social organization including health care and education as well as at the neighborhood level. The course continues to examine problems and problem-solving in local social organization as defined by local people themselves, and place them into different theoretical and methodological frameworks.

ANTH 540. COMMUNITY PROJECTS I. 5 Credits.
Pre-requisites: ANTH 522, ANTH 523, ANTH 530.
This course is designed to provide students with a framework through which to engage issues of importance to a local community through the context of applied anthropology under the mentorship of faculty. Students will identify the particular issue and community that their work might engage and connect these to their particular subfield of applied anthropology. In this course, students will focus on 1) establishing a grounded, needs-based thesis research topic; 2) building community rapport to facilitate community-based research; and 3) engaging in participatory observation of the research topic in the local community.

ANTH 541. COMMUNITY PROJECTS II. 5 Credits.
Pre-requisites: ANTH 540, ANTH 525.
This course is designed to provide students with a framework through which to engage issues of importance to a local community through the context of applied anthropology under the mentorship of faculty. Building on the work begun in ANTH 540, students will continue their community-based research while focusing on 1) data collection; 2) data management; and 3) data validation.

ANTH 542. COMMUNITY PROJECTS III. 5 Credits.
Pre-requisites: ANTH 525, ANTH 540, ANTH 541.
This course is designed to provide students with a framework through which to engage issues of importance to a local community through the context of applied anthropology under the mentorship of faculty. Building on the work begun in ANTH 540 and ANTH 541, students will continue their community-based research while focusing on 1) data analysis; 2) data visualization; and 3) presentation of results.

ANTH 552. ECONOMIC ANTHROPOLOGY. 5 Credits.
Pre-requisites: choose one of the following—ANTH 101, ECON 100, ECON 200, ECON 201 or permission of the instructor.
This course examines the economic behavior of people around the world, paying particular attention to the different systems of production, consumption and exchange that operate throughout the world. The goal of the course is to situate the study of markets, commodities and money into a larger cross-cultural context by exploring relations of power, kinship, gender, exchange and social transformation.

ANTH 559. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
This course will offer vocational experience for students in the Interdisciplinary option within the History MA program. Placement of the student with Federal or State agencies, or private organizations is designed to provide on-the-job training and will be designed for the individual needs of specific master’s programs.

ANTH 598. GRADUATE SEMINAR. 1-5 Credits.
ANTH 599. INDEPENDENT STUDY. 1-15 Credits.
ANTH 600. THESIS. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
The objective of this course is to conduct original research as part of the completion of a research study bound as a thesis. This document provides partial fulfillment of the MA requirement and will be completed under the direction of a graduate committee. The thesis is designed to sharpen research, writing, and organizational skills.

ANTH 601. RESEARCH REPORT. 1-5 Credits.

Art (ART)

ART 107. BASIC DESIGN. 5 Credits.
Pre-requisites: must be one of the following majors or minors: Art, Studio Art, Art History, Art Elementary or Secondary, Graphic Design, Visual Arts Elementary or Secondary, Visual Communication Design, Communication Studies, Theatre, Interdisciplinary Studies or Computer Science or by permission of the instructor.
This course is the exploration of design concepts for 2-dimensional work, including composition, 2-D form, scale value and color.

ART 155. BEGINNING PAINTING. 5 Credits.
An introduction to oils and acrylic painting techniques, approaches to visual composition, and concepts about diverse references for painting (from external world realism to intuitive reality). Designed for students with no previous art training - using acrylic and oil.

ART 196. EXPERIMENTAL COURSE. 1-5 Credits.
ART 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop, short course, conference or seminar.
ART 199. INDEPENDENT STUDY. 1-6 Credits.

ART 207. COLOR DESIGN. 5 Credits.
This course examines color problems in design and fine art.

ART 213. ART IN THE HUMANITIES. 5 Credits.
Cross listed: HONS 213/HUMN 213.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
A survey of cultural interrelationships of the arts, emphasizing the visual arts of painting, sculpture and architecture.

ART 296. EXPERIMENTAL COURSE. 1-5 Credits.

ART 299. INDEPENDENT STUDY. 3-5 Credits.

ART 300. DRAWING. 5 Credits.
Pre-requisites: must be one of the following majors or minors: Art, Studio Art, Art History, Art Elementary or Secondary, Graphic Design, Visual Arts Elementary or Secondary, Visual Communication Design, Communication Studies, Theatre, Interdisciplinary Studies or Computer Science or by permission of the instructor.
This course is an introduction to fundamentals of drawing. Students use a variety of media.

ART 303. DIGITAL ART I. 5 Credits.
Pre-requisites: must be one of the following majors or minors: Art, Studio Art, Art History, Art Elementary or Secondary, Graphic Design, Visual Arts Elementary or Secondary, Visual Communication Design, Communication Studies, Theatre, Interdisciplinary Studies or Computer Science or by permission of the instructor.
This is a beginning digital art course that explores the use of digital media in the creation of studio art. The focus of this course is on the development of works of art through the use of computer applications such as Adobe Photoshop, Illustrator and Flash. Students experiment with ways in which other artistic media can be used in combination with the digital image to produce unique works of art.

ART 304. ART OF PHOTOGRAPHY. 5 Credits.
Pre-requisites: must be one of the following majors or minors: Art, Studio Art, Art History, Art Elementary or Secondary, Graphic Design, Visual Arts Elementary, Visual Arts, Secondary, Visual Communication Design, Communication Studies, Journalism, Theatre, Interdisciplinary Studies or Computer Science or by permission of the instructor.
Course fee. This class is an exploration of the photographic medium with emphasis on artistic development. Students work with film-based or digital imagery, while learning photographic process and engaging in a dialogue with visual history.

ART 307. 3D DESIGN. 5 Credits.
Problems in experimental three-dimension design and structure are considered.

ART 310. WORLD ART. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement. A survey of aesthetic and visual concepts of various cultures. Includes study of selected indigenous, primitive and native art forms.

ART 311. AFRICAN AND AFRICAN AMERICAN ART HISTORY. 5 Credits.
Cross listed: HUMN 311.
Pre-requisites: ENGL 100.
Satisfies: cultural and gender diversity university graduation requirement. Surveys visual arts from prehistoric Africa to the modern African artist.

ART 325. CERAMICS. 5 Credits.
Explorations of the aesthetics and techniques in the production of earthenware pottery and clay sculpture. (Charge for supplies)

ART 339. RESEARCH IN ART HISTORY. 2 Credits.
Pre-requisites: ENGL 101.
This course is an intensive study of the methodology of research in the field of art history with an emphasis on research techniques and writing.

ART 355. PAINTING. 5 Credits.
Pre-requisites: ART 155 or permission of the instructor.
This is either a beginning course for upper division students or the second course for those who have taken ART 155. The exploration of various techniques and approaches to making paintings (realism to non-representational).

ART 356. WATERCOLOR. 5 Credits.
Basic watercolor techniques using still life and landscape models.

ART 360. PRINTMAKING. 5 Credits.
Pre-requisites: must be one of the following majors or minors: Art, Studio Art, Art History, Art Elementary or Secondary, Graphic Design, Visual Arts Elementary or Secondary, Visual Communication Design, Communication Studies, Theatre, Interdisciplinary Studies or Computer Science or by permission of the instructor.
This course explores printmaking techniques including experimental methods.

ART 365. SCULPTURE. 5 Credits.
Experimentation in sculpture through modeling, casting, carving and fabrication. (Charge for supplies)

ART 390. ART IN THE ELEMENTARY SCHOOL. 3 Credits.
Pre-requisites: junior standing.
Children's development in visual expression. Teaching procedures and materials used in structuring children's art experiences and the development of skill in basic studio practices.

ART 391. FOUNDATIONS OF ART EDUCATION. 2 Credits.
Pre-requisites: junior standing.
An examination and review of significant historical and philosophical thought in the development of contemporary art education.

ART 393. ART IN THE SECONDARY SCHOOL. 3 Credits.
Pre-requisites: permission of the instructor.
Designed to examine and verify professional competency prior to student teaching. Required for secondary emphasis art majors.

ART 395. INTERNSHIP. 1-5 Credits.

ART 396. EXPERIMENTAL COURSE. 1-5 Credits.

ART 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ART 398. SEMINAR. 2-3 Credits.

ART 399. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary according to faculty and student interest.

ART 400. DRAWING. 5 Credits.
Pre-requisites: ART 300.
Advanced drawing and figure construction techniques. Students may specialize in one medium.

ART 401. LIFE DRAWING. 5 Credits.
Pre-requisites: ART 300.
ART 403. DIGITAL ART II. 5 Credits.

Pre-requisites: ART 303 or permission of the instructor.

Course fee. This is an intermediate and advanced digital art course that expands on the use of digital media in the creation of studio art. In this section, students work to develop greater proficiency in using the computer as an artistic tool while working to build a strong, independent portfolio of digital work using computer applications such as Adobe Photoshop, Illustrator and Flash. The focus is to refine skills and knowledge of the creation of digital-based works of art.

ART 404. ART OF PHOTOGRAPHY. 5 Credits.

Pre-requisites: ART 304 or permission of the instructor.

Advanced photo techniques and ideas. Subjects vary according to faculty and student interests.

ART 407. ALTERNATIVE MEDIA. 5 Credits.

Pre-requisites: junior standing.

Learning to work with non-traditional materials in the creation of art, students create works dealing with time, chance, light, space and other alternative methods. We will discuss artists and issues surrounding the development of conceptual art and consider its influence on today's art world.

ART 408. INTERMEDIA. 5 Credits.

Pre-requisites: junior standing.

The focus of this course is on learning to work with more than one medium in the creation of works of art intermedia. Students will create works that involve combinations of performance, video and installation. We will discuss artists and issues surrounding the creation of works that are or can be termed intermedia.

ART 409. WOMEN AND MEN IN CONTEMPORARY ART. 1 Credit.

Cross listed: WMST 409.

Pre-requisites: ENGL 201.

The class focuses on how the cultural arts describe society. Examining as it does to a variety of social issues. Students will suggest ways in which they can integrate women into the arts and into their understanding of larger cultural relationships.

ART 415. HISTORY OF ANCIENT ART. 5 Credits.

Cross listed: HONS 415.

Pre-requisites: ENGL 101; ART 213/HONS 213/HUMN 213 (may be taken concurrently).

This course is a survey of early styles of art in Western civilization, including Egypt, the Near East, Greece and Rome.

ART 417. HISTORY OF MEDIEVAL ART. 5 Credits.

Cross listed: HONS 417.

Pre-requisites: ENGL 101; ART 213/HONS 213/HUMN 213 (may be taken concurrently).

This course is a survey of painting, sculpture, architecture and craft art in Europe from the Early Christian period through the Gothic age (ca 400–1400 AD).

ART 420. HISTORY RENAISSANCE ART. 5 Credits.

Cross listed: HONS 420.

Pre-requisites: ENGL 101; ART 213/HONS 213/HUMN 213 (may be taken concurrently).

This course includes discussion of painting, sculpture and architecture of Renaissance Europe from the 14th through the 16th centuries, including a comparison between Italian and Northern styles.

ART 422. HISTORY OF BAROQUE AND ROCOCO ART. 5 Credits.

Cross listed: HONS 422.

Pre-requisites: ENGL 101; ART 213/HONS 213/HUMN 213 (may be taken concurrently).

This course presents European Art between 1600 and 1750, with attention to the interrelation between the visual arts of painting, sculpture and architecture and other areas of cultural development—music, drama, literature and philosophy.

ART 423. ART OF THE 19TH CENTURY. 5 Credits.

Cross listed: HONS 423.

Pre-requisites: ENGL 101; ART 213/HONS 213/HUMN 213 (may be taken concurrently).

This course is a survey of painting, sculpture and architecture in 19th century America and Europe, covering such movements as Neoclassicism, Romanticism, Realism and Impressionism.

ART 425. ADVANCED CERAMICS. 5 Credits.

Pre-requisites: ART 325.

This course emphasizes the development of advanced skills in ceramics, handbuilding and/or wheel throwing and glaze technology.

ART 430. HISTORY OF MODERN ART. 5 Credits.

Cross listed: HONS 430.

Pre-requisites: ENGL 101 and ART 213 or HUMN 213: ART 213/HUMN 213 (may be taken concurrently).

This course is a survey of major art forms, including architecture, from French Impressionism (ca. 1865) to the present. Emphasis will be on identifying the origins and tracing the development of 20th century styles.

ART 431. HISTORY OF CONTEMPORARY ART. 5 Credits.

Pre-requisites: ENGL 101 and ART 213 or HUMN 213. Students must be declared in one of the following majors: Art, Studio Art, Art History, Visual Communication Design, Theatre, Interdisciplinary Studies, Computer Science, Humanities or by permission of the instructor.

This course is a survey of art and theoretical writings on art from 1960 to the present. As the art world is increasingly globalized, this course examines the works and ideas from artists and art theorists around the world today.

ART 439. ART HISTORY SEMINAR. 2-3 Credits.

Notes: may be repeated for additional credit.

Pre-requisites: ENGL 101.

This variable topic, variable credit class is an intensive study of the major artists and issues of one historical period. Topics will be developed through readings and group discussions.

ART 446. JEWELRY. 5 Credits.

ART 450. WORKSHOP IN ART. 1-5 Credits.

Notes: may be repeated for additional credit.

Pre-requisites: permission of the instructor.

Exploratory problems in a variety of materials and media.

ART 455. PAINTING. 5 Credits.

Pre-requisites: ART 355.

Exploring a variety of concepts/attitudes and materials relating to art making.

ART 460. PRINTMAKING. 5 Credits.

Pre-requisites: ART 360.

Continued exploration of print media. Emphasis upon craftsmanship and creative possibilities of media.
ART 465. SCULPTURE. 5 Credits.
Pre-requisites: ART 365.
Advanced study in sculptural media of student’s choice. Opportunity for work in stone, wood, welding, bronze casting and other specialities.

ART 470. SENIOR EXHIBITION. 1 Credit.
Notes: must be repeated three times for credit.
Pre-requisites: senior standing; permission of the instructor and the department chair.
The individual preparation and presentation of work for senior exhibition.

ART 471. SENIOR EXHIBITION. 1 Credit.
Cross listed: DESN 471.
Notes: must be repeated three times for credit.
Pre-requisites: senior standing and declared BFA in VCD major.

ART 490. SENIOR CAPSTONE. 5 Credits.
Pre-requisites: graduating senior in both BFA and BA Studio Art programs.
Satisfies: senior capstone university graduation requirement.
The course addresses issues from portfolio development, to proposals, to opportunities in the art world. Students are encouraged to work with faculty in developing internships as well as grant proposals and slide packages.

ART 491. SENIOR THESIS. 5 Credits.
Pre-requisites: permission of the instructor.
Satisfies: senior capstone university graduation requirement.
The research and writing of an undergraduate thesis in Art History. Normally taken during the student’s senior year.

ART 495. INTERNSHIP. 1-3 Credits.
Pre-requisites: permission of instructor, dept. chair and college dean.

ART 496. EXPERIMENTAL COURSE. 1-5 Credits.
Subjects vary according to faculty and student interest.

ART 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ART 498. SEMINAR. 1-5 Credits.
Notes: may be repeated for additional credit.

ART 499. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Designed for upper-division students who wish to pursue work in any area in which they have completed three prior quarters of work.

ART 501. GRADUATE LIFE DRAWING. 5 Credits.
Pre-requisites: ART 401 or permission of the instructor.
Advanced study of drawing techniques and the human form.

ART 525. GRADUATE CERAMICS. 5 Credits.
Pre-requisites: ART 425 or permission of the instructor.
Emphasis on the development of advanced skills in ceramics, hand building, wheel throwing and glaze techniques.

ART 539. SPECIAL TOPICS. 1-5 Credits.

ART 555. GRADUATE PAINTING. 5 Credits.
Pre-requisites: ART 455 or permission of the instructor.
Advanced studies in painting media.

ART 565. GRADUATE SCULPTURE. 5 Credits.
Pre-requisites: ART 465 or permission of the instructor.
Critical studies in advanced sculpture techniques.

ART 595. INTERNSHIP. 1-12 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ART 596. EXPERIMENTAL COURSE. 1-5 Credits.

ART 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.
Pre-requisites: permission of the instructor, department chair and college dean.

ART 598. GRADUATE SEMINAR. 1-5 Credits.

ART 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent study projects in a selected special field of art.

ART 600. THESIS. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ART 601. CREATIVE RESEARCH PROJECT. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ART 696. COLLEGE TEACHING INTERNSHIP. 15 Credits.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student course evaluation.

**Athletic Training (ATTR)**

**ATTR 201. INTRODUCTION TO ATHLETIC TRAINING. 3 Credits.**
Introduction to athletic training is a basic course designed to introduce the profession of athletic training to students who are interested in pursuing athletic training as a professional career choice. Students will be introduced to the following areas that encompass the athletic training field: athletic training as an allied health profession, current educational requirements for national practice, emergency planning and procedures, and environmental concerns. Hands-on experiences may include common wrapping, taping and bracing techniques.

**ATTR 288. CLINICAL ATHLETIC TRAINING I. 1 Credit.**
Pre-requisites: must be a declared Athletic Training major.
The course is designed to provide clinical experience in a professional athletic training setting. The student works as an assistant under the direction of a certified athletic trainer/clinical instructor. A portfolio completed by the student and checked off by the clinical instructor is used to document completion of competencies. This course should be taken three times during an academic career.

**ATTR 296. EXPERIMENTAL COURSE. 1-5 Credits.**

**ATTR 339. ATHLETIC TRAINING. 4-5 Credits.**
Pre-requisites: ATTR 201.
The purpose of the Basic Athletic Training Course is to provide participants with the fundamental aspects of Athletic Training including prevention, recognition, management and treatment of various musculoskeletal injuries. The lab portion of the class will address basic wrapping and taping techniques, as well as hands-on injury evaluation.
ATTR 340. THERAPEUTIC MODALITIES IN SPORTS MEDICINE. 4 Credits.
Pre-requisites: ATTR 339 or permission of course instructor.
The course covers techniques in therapeutic exercise, thermal therapy, hydrotherapy, cryotherapy and electrical modalities. It also introduces students to psychological and physiological responses to injury.

ATTR 341. REHABILITATION IN ATHLETIC TRAINING. 4 Credits.
Pre-requisites: ATTR 340 or permission of course instructor.
Design and supervision of rehabilitation programs for orthopedic athletic injuries. This will include common programs for major joint and musculoskeletal injuries; also will consist of learning techniques in therapeutic exercise, massage, joint mobilization, and proprioceptive neuromuscular facilitation.

ATTR 350. MEDICATIONS IN THE HEALTH CARE PROFESSIONS. 2 Credits.
This course covers usage of therapeutic medications for allied health care professionals. It explores the common medications used in the rehabilitative health professions. It also addresses the mechanisms of drug action in relation to the treatment of diseases, dosage requirements, drug interactions, side effects, legal considerations and general information and guidelines related to medication usage.

ATTR 360. GENERAL MEDICAL CONDITIONS. 3 Credits.
Pre-requisites: ATTR 341 or permission of the instructor.
This course will provide students an opportunity to learn about general medical conditions of the body system. Subjects covered will include mechanism of acquisition, signs, symptoms, referral, treatment and return to participation criteria. Students will develop a framework for decision making when evaluating individuals including athletes that present with these conditions.

ATTR 370. CONTEMPORARY HEALTH ISSUES IN ATHLETIC TRAINING. 3 Credits.
Pre-requisites: ATTR 201 or permission of instructor.
This course provides an understanding of the personal and societal health issues they will encounter as a part of the profession of athletic training.

ATTR 388. CLINICAL ATHLETIC TRAINING II. 1 Credit.
Pre-requisites: ATTR 288 or equivalent.
A course designed to provide a minimum of 1000 hours of clinical experience in a professional athletic training setting over a minimum of at least two years. The students work in an assistant capacity under the direction of a certified athletic trainer/clinical instructor. A portfolio, completed by the students and checked off by the clinical instructor is used to document completion of competencies.

ATTR 428. ORTHOPEDIC EVALUATION I. 4 Credits.
Pre-requisites: ATTR 341 or permission of course instructor.
This course will provide students an opportunity to learn and practice injury evaluation procedures used in athletic training. The course will address history taking, inspection, palpation and orthopedic evaluation, as basic principles used in injury evaluation. Laboratory time will be devoted to palpation, structural assessment, neurologic assessment, range of motion and strength assessment of the pelvis, hip, thigh, lower leg, ankle and foot.

ATTR 429. ORTHOPEDIC EVALUATION II. 4 Credits.
Pre-requisites: ATTR 428 or permission of course instructor.
This course will provide students an opportunity to learn and practice injury evaluation procedures used in athletic training. The course will address history taking, inspection, palpation and orthopedic evaluation, as basic principles used in injury evaluation. Laboratory time will be devoted to palpation, structural assessment, neurologic assessment and strength assessment in injuries involving the spine, shoulder, elbow, wrist, and hand.

ATTR 439. CURRENT TOPICS IN SPORTS MEDICINE. 1 Credit.
This course incorporates current topics that are not generally taught in the athletic training curriculum. It emphasizes student participation through a group presentation. The course is to be taken at least three times for the major.

ATTR 450. ADVANCED PROCEDURES AND TECHNIQUES IN ATHLETIC TRAINING. 3 Credits.
Pre-requisites: ATTR 428 and ATTR 429.
This course introduces students to those skills and techniques used in the practice of athletic training that are beyond those typically considered basic in the profession, in that the procedures discussed and the practical skills attained are more time intensive and require pre-requisite foundational skills.

ATTR 488. CLINICAL ATHLETIC TRAINING III. 2 Credits.
Pre-requisites: ATTR 388 or permission of instructor.
This course should be taken three times during an academic career. A course designed to provide a minimum of 1000 hours of clinical experience in a professional athletic training setting over a minimum of at least two years. The students work in an assistant capacity under the direction of a certified athletic trainer/clinical instructor. A portfolio, completed by the students and checked off by the clinical instructor is used to document completion of competencies.

ATTR 490. SENIOR CAPSTONE. 4 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
The course is designed as the capstone for athletic training majors. It will focus on the administrative and management responsibilities required when working in the field of sports medicine including job requirements and problems faced as a professional. There will be group and individual projects and presentations related to sports medicine and athletic training, including a culminating project that will be assessed by class peers and professionals in the related field. The final project will require students to work in groups to design an athletic training facility, addressing facility and equipment selection and organization, personnel selection and management, legal liability, insurance and budgeting.

ATTR 496. EXPERIMENTAL COURSE. 1-5 Credits.

ATTR 499. DIRECTED STUDY. 1-15 Credits.

Biology (BIOL)

BIOL 100. INTRODUCTION TO BIOLOGY. 5 Credits.
Pre-requisites: completion of pre-university basic skills in mathematics requirement.
Satisfies: GECR for natural sciences, biology.
This course is an introduction to the methods of study and the three levels of organization in living organisms: cell, organismal and population. A laboratory is included.
BIOL 115. INVESTIGATING BIOLOGY. 5 Credits.
Pre-requisites: completion of pre-university basic skills in mathematics requirement.
Satisfies: GECR for natural science, biology.
This course is for students planning to teach elementary school. It includes inquiry based biological investigations that support science instruction outlined in the National Science Education Standards and Washington Essential Academic Learning Requirements. Laboratory exercises are included.

BIOL 171. BIOLOGY I. 5 Credits.
Notes: course fee.
Pre-requisites: Concurrent enrollment in MATH 141 or completion of MATH 141 with ≥2.0. Students must receive ≥1.7 to enroll in BIOL 172 and ≥2.0 to enroll in BIOL 270.
This course includes an introduction to biology, covering a review of chemistry from atomic structure through respiration, cell and molecular biology and genetics.

BIOL 172. BIOLOGY II. 5 Credits.
Notes: course fee.
Pre-requisites: ≥1.7 in BIOL 171 and ≥2.0 in MATH 141.
Satisfies: 2nd Natural Sciences biology GECR if BIOL 171 and BIOL 270 are complete or BIOL 172 and BIOL 270 are completed.
Introduction to biology, covering evolution, the diversity of life and interactions among organisms and their environment.

BIOL 173. BIOLOGY III. 5 Credits.
Notes: course fee.
Pre-requisites: ≥ 2.0 in BIOL 172.
This course is an introduction to biology, covering the structure and function of plants and animals, with emphasis on flowering plants and vertebrates.

BIOL 196. EXPERIMENTAL COURSE. 1-5 Credits.

BIOL 197. FRESHMAN SEMINAR. 1-5 Credits.

BIOL 199. SPECIAL STUDIES BIOLOGY. 1-5 Credits.

BIOL 225. ELEMENTARY MEDICAL MICROBIOLOGY. 5 Credits.
Pre-requisites: completion of or concurrent enrollment in both BIOL 234 and CHEM 151.
This course will discuss micro-organisms and animal parasites, with chief emphasis on those which affect human health. A laboratory is included.

BIOL 232. HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS. 5 Credits.
Pre-requisites: one course in college chemistry.
Satisfies: a GECR for natural sciences, biology.
First of a three-quarter sequence concerned with the structure and function of the human organism. Chemistry, cells, histology, integumentary system, skeletal system, excitable tissues and muscular system will be completely and thoroughly covered. Laboratory included that utilizes human cadavers, models, multimedia and other technologies.

BIOL 233. HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS. 5 Credits.
Pre-requisites: BIOL 232.
Satisfies: a GECR for natural sciences, biology.
Second of a three-quarter sequence concerned with the structure and function of the human organism. Nervous system, autonomic nervous system, special senses, endocrine system, cardiovascular system, lymphatic system and immunity will be completely and thoroughly covered. Laboratory included that utilizes human cadavers, models, multimedia and other technologies.

BIOL 234. HUMAN ANATOMY AND PHYSIOLOGY NON-BIOL MAJORS. 5 Credits.
Pre-requisites: BIOL 233.
Satisfies: a GECR for natural sciences, biology.
Third of a three-quarter sequence concerned with the structure and function of the human organism. Respiratory system, digestive system, nutrition and metabolism, urinary system, and reproductive system will be completely and thoroughly covered. Laboratory included that utilizes human cadavers, models, multimedia and other technologies.

BIOL 235. ELEMENTARY MEDICAL MICROBIOLOG. 5 Credits.
Pre-requisites: completion of or concurrent enrollment in both BIOL 234 and CHEM 163.
This course will discuss micro-organisms and animal parasites, with chief emphasis on those which affect human health. A laboratory is included.

BIOL 270. BIOLOGICAL INVESTIGATION. 3 Credits.
Notes: the completion of BIOL 171 and BIOL 270 satisfies a GECR for natural sciences, biology; the completion of BIOL 171, BIOL 172 and BIOL 270 satisfies a second GECR for natural sciences, biology.
Pre-requisites: ≥ 2.0 in BIOL 171 or BIOL 172.
Experimental design and performance, including data collection and analysis, scientific writing and use of the biological literature.

BIOL 295. INTERNSHIP. 1-15 Credits.

BIOL 296. EXPERIMENTAL COURSE. 1-5 Credits.

BIOL 299. SPECIAL STUDIES BIOLOGY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
An opportunity for students to explore problems of special interest.

BIOL 300. HISTORY OF BIOLOGY. 5 Credits.
Examines the development of biological ideas in the Western world from early times to the present.

BIOL 301. MICROBIOLOGY. 5 Credits.
Pre-requisites: ≥1.7 in BIOL 171, ≥2.0 in MATH 141, ≥ 2.0 in BIOL 171 or BIOL 172.
This course covers morphology, physiology, taxonomy and ecology of the microorganisms, emphasizing prokaryotes, fungi and the viruses. A laboratory is included.

BIOL 302. BOTANY. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270; completion of or concurrent enrollment in CHEM 151.
This course explores the structure, function and phylogenetic relationships of the invertebrate phyla. A laboratory is included.

BIOL 303. INVERTEBRATE ZOOLOGY. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270; completion of or concurrent enrollment in CHEM 151.
This course examines structure, function and phylogenetic relationships of the invertebrate phyla. A laboratory is included.

BIOL 304. VERTEBRATE ZOOLOGY. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270; completion of or concurrent enrollment in CHEM 151.
This course explores the structure, function and phylogenetic relationships of the vertebrates. A laboratory is included.

BIOL 306. NATURAL VEGETATION ECOLOGY OF NORTH AMERICA. 5 Credits.
Cross listed: GEOL 306.
Pre-requisites: GEOL 100 or permission of the instructor.
This course is an introduction to the processes and patterns of natural vegetation, emphasizing the Pacific Northwest.
BIOL 310. FUNDAMENTALS OF GENETICS. 5 Credits.
Pre-requisites: ≥1.7 in BIOL 171, ≥2.0 in BIOL 172, and BIOL 173, CHEM 153.
This course provides comprehensive coverage of the major topic areas of genetics: classical, molecular and evolutionary.

BIOL 312. FUNDAMENTALS OF SOIL SCIENCE. 4 Credits.
Cross listed: GEOG 312.
Pre-requisites: MTHD 104 or clearance by test.
A general introduction to physical, chemical and biological properties of soils.

BIOL 318. BIOLOGY OF WOMEN. 3 Credits.
Cross listed: WMST 318.
The history, biology and myths of human reproduction as they apply to women and the interaction of brain, hormones and social life.

BIOL 320. THE HUMAN PROSPECT. 5 Credits.
Cross listed: HUMN 320.
Satisfies: international studies university graduation requirement.
Explores the biological and philosophical roots of humans’ relationship with the environment.

BIOL 324. ENTOMOLOGY. 4 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, CHEM 151.
This course is a study of insect biology. A laboratory is included.

BIOL 332. HUMAN ANATOMY AND PHYSIOLOGY I. 5 Credits.
Pre-requisites: BIOL 173 with a grade ≥2.5; CHEM 153 with a grade ≥2.5; or instructor permission.
This is the first course in a three-quarter sequence covering the structure and function of the human body. Intended for students with significant background in biology and chemistry who are pursuing health care careers. A laboratory is included each quarter.

BIOL 333. HUMAN ANATOMY AND PHYSIOLOGY II. 5 Credits.
Pre-requisites: BIOL 332.
The second in a three-quarter sequence covering the structure and function of the human body. Intended for students with significant background in biology and chemistry who are pursuing health care careers. A laboratory is included each quarter.

BIOL 334. HUMAN ANATOMY AND PHYSIOLOGY III. 5 Credits.
Pre-requisites: BIOL 333.
The third in a three-quarter sequence covering the structure and function of the human body. Intended for students with significant background in biology and chemistry who are pursuing health care careers. A laboratory is included each quarter.

BIOL 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

BIOL 340. BIOLOGY AND SOCIETY. 2 Credits.
Pre-requisites: either BIOL 100 or ≥1.7 in BIOL 171 or one of them taken concurrently.
This course will discuss biological, social, ethical and economic implications of current advances in the biological sciences.

BIOL 343. BIOLOGY OF AGING. 3 Credits.
This course will discuss the aging of biological organisms, viewed from the molecular level through the population level. The emphasis will be on human aging.

BIOL 351. PRINCIPLES OF ANIMAL PHYSIOLOGY. 4 Credits.
Pre-requisites: BIOL 173 and CHEM 153.
An integrative understanding of the physiological systems of vertebrates, analyzing physiological processes from the cellular level upwards, culminating in organismal function. This course reinforces concepts from biology, physics, chemistry and mathematics.

BIOL 352. PRINCIPLES OF PLANT PHYSIOLOGY. 4 Credits.
Pre-requisites: BIOL 173, CHEM 153.
This course addresses mechanisms by which plants obtain nutrients from the soil and atmosphere, convert light energy to chemical energy, and coordinate responses to shifting environmental conditions in roots, leaves and reproductive structures.

BIOL 353. PRINCIPLES OF MICROBIAL PHYSIOLOGY. 4 Credits.
Pre-requisites: BIOL 173, CHEM 153.
This course explores the physiology of unicellular microbes. It includes topics on microbial replication and how microbes adapt to their environment through regulating gene expression, horizontal gene transfer and cell-cell communication.

BIOL 380. DATA ANALYSIS FOR BIOLOGISTS. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270; completion of or concurrent enrollment in CHEM 151 and a ≥2.0 in MATH 141.
Satisfies: mathematics proficiency.
Students gain the knowledge and skills required to conduct and interpret data analysis and statistics commonly applied in Biology. Key concepts of statistical analysis such as populations and samples, uncertainty, p-values, hypothesis testing, Type I & Type II errors, statistical methods and R programming language are covered.

BIOL 390. BIOLOGY TEACHING METHODS. 2 Credits.
Notes: all courses in the major must have a ≥2.0 or greater.
Pre-requisites: BIOL 171, BIOL 172, BIOL 173 and BIOL 270; concurrent SCED 390.
This course is designed for individuals seeking endorsement to teach junior or senior high school biology or general science. Various types of biology programs, organization of lesson materials, techniques and laboratory safety are included.

BIOL 395. INTERNSHIP/CO-OP FIELDWK. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean; only 5 credits will be allowed toward the electives.

BIOL 396. EXPERIMENTAL COURSE. 1-6 Credits.

BIOL 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

BIOL 399. DIRECTED STUDY. 1-15 Credits.

BIOL 405. LIMNOLOGY. 5 Credits.
Pre-requisites: any one of BIOL 301, BIOL 302, BIOL 303, BIOL 304 or concurrent enrollment.
This course includes the general study of the physical, chemical and biological features of lakes and streams. A laboratory is included.

BIOL 409. MYCOLOGY. 5 Credits.
Pre-requisites: any one of BIOL 301, BIOL 302, BIOL 303, BIOL 304 or concurrent enrollment.
This course includes discussion of the structure, physiology, ecology and taxonomy of microfungi and mushrooms with an emphasis on fungi of the Northwest. A laboratory is included.
BIOL 411. FIELD BOTANY. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
The goal of this course is to gain an appreciation of natural history and
the unique array of plants found in our region. This will be a practical,
hands-on, field-based course where students learn how to identify plants.

BIOL 420. EPIDEMIOLOGY. 5 Credits.
Pre-requisites: BIOL 301.
This course is a study of the factors which determine the frequencies and
distributions of communicable diseases among humans.

BIOL 421. MEDICAL BACTERIOLOGY. 5 Credits.
Pre-requisites: BIOL 301.
This course addresses microbial agents of human disease, with an
emphasis on bacteria.

BIOL 423. EVOLUTION. 5 Credits.
Pre-requisites: BIOL 310 plus any one of BIOL 301, BIOL 302, BIOL 303,
BIOL 304.
This course is a study of variation, adaptation and speciation in biological
systems.

BIOL 430. IMMUNOLOGY. 5 Credits.
Pre-requisites: Any one of BIOL 301, BIOL 303, BIOL 304 or permission of
the instructor. BIOL 460 is recommended.
This course covers immune reactions of animals with principal emphasis
on those associated with infectious diseases.

BIOL 432. VIROLOGY. 5 Credits.
Pre-requisites: Any one of BIOL 301, BIOL 303, BIOL 304 or permission of
the instructor. BIOL 460 is recommended.
This course includes coverage of the molecular biology of microbial,
animal and plant viruses and their host-parasite relationships. Those
viruses associated with human and animal diseases are emphasized.

BIOL 435. BIOLOGY OF CANCER. 5 Credits.
Pre-requisites: ≥ 2.0 in BIOL 173 or BIOL 234, CHEM 153 or CHEM 163.
A general study of human neoplasms.

BIOL 436. CELL BIOLOGY. 5 Credits.
Pre-requisites: ≥1.7 in BIOL 171, ≥2.0 in BIOL 172, BIOL 173, BIOL 270,
BIOL 310 and CHEM 153.
This course is a comprehensive study of cell biology from a structural
and functional perspective.

BIOL 438. MOLECULAR BIOLOGY. 5 Credits.
Pre-requisites: BIOL 310 and one of BIOL 301, BIOL 302, BIOL 303, BIOL
304, CHEM 351.
This course includes study of gene structure, organization, function and
regulation. Equal emphasis is given to the molecular processes and
genetic phenomena of both prokaryotic and eukaryotic cells.

BIOL 440. ECOLOGY. 4 Credits.
Pre-requisites: MATH 161 or MATH 380 and ≥2.0 in BIOL 172, BIOL 173,
BIOL 270; or permission of the instructor.
This course involves the study of factors which determine the distribution
and abundance of organisms.

BIOL 441. ECOLOGY LAB. 2 Credits.
Pre-requisites: current or prior enrollment in BIOL 440.
A field and laboratory course which emphasizes testing ecological
hypotheses.

BIOL 442. CONSERVATION BIOLOGY. 4 Credits.
Pre-requisites: ≥1.7 in BIOL 171, ≥2.0 in BIOL 172, BIOL 173, BIOL 270 or
permission of the instructor; BIOL 440 recommended.
Conservation biology is a synthetic discipline that has arisen in response
to the current unprecedented rates of extinction and draws on a wide
range of basic sciences and applied fields to address the problem of
loss of biological diversity. This course introduces students to the
discipline of conservation biology, familiarizes students with literature in
conservation biology and provides students with a forum for discussion
of some major topics in conservation biology.

BIOL 443. WILDLIFE MANAGEMENT. 4 Credits.
Pre-requisites: ≥1.7 in BIOL 171, ≥2.0 in BIOL 172, BIOL 173 and BIOL 270
or permission of the instructor; BIOL 440 recommended.
This course examines the historical and political development of wildlife
management, the ecological principles that underpin management
decisions, primary approaches to management, and current management
issues.

BIOL 444. FIELD ECOLOGY. 4 Credits.
Pre-requisites: BIOL 423 or BIOL 440 or permission of the instructor.
In this course students conduct observational and/or experimental field
studies designed to answer contemporary ecological questions. The
course emphasizes hypothesis testing, study design, field techniques,
data analysis, and written and oral study presentation. Aquatic ecology,
terrestrial ecology, or both may be emphasized.

BIOL 445. STREAM ECOLOGY. 5 Credits.
Pre-requisites: one of: BIOL 301, BIOL 302, BIOL 303, BIOL 304; or
permission of instructor.
This course covers the diverse ecological functions of streams and their
roles in global processes. The primary focus is on ecosystem function.
Stream organisms and their communities are also covered. Laboratories
include field work, laboratory techniques, data analysis and professional
methods for measuring rates of stream ecosystem processes and
investigating stream communities.

BIOL 446. RIPARIAN ECOLOGY. 5 Credits.
Pre-requisites: BIOL 411, BIOL 172, BIOL 173 and BIOL 270 or permission
of instructor.
This course will focus on riparian areas (riparia), which experience
intermittent flooding by water moving within a catchment. Riparia form
the interface between terrestrial and aquatic habitats and perform
critical ecosystem functions. This class will address riparian physical
processes, biotic adaptations, human impacts, conservation, restoration
and management.

BIOL 450. MAMMALOGY. 5 Credits.
Pre-requisites: BIOL 304 or permission of the instructor.
This course covers the classifications, life histories and ecology of
mammals. A laboratory is included.

BIOL 454. ORNITHOLOGY. 5 Credits.
Pre-requisites: BIOL 304 or permission of the instructor.
Natural history and taxonomy of birds.

BIOL 460. HEMATOLOGY. 5 Credits.
Pre-requisites: BIOL 310 plus one of BIOL 301, BIOL 303 or BIOL 304; or
permission of the instructor.
This course discusses the morphology and hemostasis of the normal
and abnormal human hematological system. A laboratory is included.
BIOL 462. Ichthyology. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270 or permission of the instructor.
This course is a systematic and ecological study of fishes with emphasis on the freshwater fishes of the U.S. A laboratory is included.

BIOL 463. Fishery Biology and Management. 4 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270 or permission of the instructor.
This course covers the development of the biological basis of fisheries management and the role of fish populations as sources of food and recreation for humans.

BIOL 470. Biological Illustration. 5 Credits.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270 or permission of the instructor.
The emphasis in this course is placed on developing the various techniques commonly used in rendering biological illustrations that are suitable for publication.

BIOL 471. Pre-Medical, Dental, Veterinary and Pharmacy Preparation. 1-2 Credits.
Pre-requisites: junior standing or permission of the instructor.
Prepares students for their interviews for medical, dental, veterinary or pharmacy school and for professional activities. Discusses medical ethics and presents students with a wide range of dilemmas associated with the medical field and has students work toward resolutions.

BIOL 473. Neurobiology. 5 Credits.
Notes: PHYS 133 or PHYS 153 is recommended.
Pre-requisites: ≥2.0 in BIOL 172, BIOL 173, BIOL 270; CHEM 153 or permission from the instructor.
This course introduces students to the principles of neurobiology. Emphasis is placed on human neuroscience but examples from a wide range of invertebrates and vertebrates are used to best illustrate neurobiological principles, concepts, and mechanisms. The course also includes a laboratory component focusing on neuroanatomy.

BIOL 476. Muscle Physiology. 3 Credits.
Pre-requisites: BIOL 332 or permission of the instructor.
This course examines the structure, function and regulation of muscle tissue with emphasis on skeletal muscle.

BIOL 477. Embryology. 5 Credits.
Pre-requisites: BIOL 310.
This course examines the dynamics, physical features and mechanisms of early organismic development from both the classical embryology and modern genetic perspective. Emphasis is placed on mammalian embryology. Also discussed are state-of-art technologies currently in use in medical and veterinary practice and in research.

BIOL 479. Clinical Laboratory Theory and Practicum I. 6 Credits.
Pre-requisites: admission to Professional Training at Sacred Heart Medical Center. This course is a clinical laboratory science course, which will begin at the affiliate hospital in the latter part of summer of a student's junior year. It includes lecture and laboratory instruction in clinical immunohematology, clinical chemistry, phlebotomy, clinical hematology, clinical microscopy and urinalysis, clinical body fluids, transfusion techniques and clinical microbiology.

BIOL 480. Clinical Laboratory Theory and Practicum II. 12 Credits.
Pre-requisites: BIOL 479.
Prepares students for their interviews for medical, dental, veterinary or pharmacy school and for professional activities. Discusses medical ethics and presents students with a wide range of dilemmas associated with the medical field and has students work toward resolutions.

BIOL 483. Clinical Laboratory Theory and Practicum IV. 12 Credits.
Pre-requisites: BIOL 482.
Prepares students for their interviews for medical, dental, veterinary or pharmacy school and for professional activities. Discusses medical ethics and presents students with a wide range of dilemmas associated with the medical field and has students work toward resolutions.

BIOL 485. Molecular Biotechnology. 5 Credits.
Pre-requisites: BIOL 301, BIOL 310, CHEM 480.
A study of the concepts, experiments and industrial applications of fermentation theory, recombinant DNA protocols, plasmids and cloning. DNA, RNA and protein sequencing and synthesis, monoclonal antibodies and cell fusion, solid support enzyme technology, energy reactions, biomass and secondary metabolite production and biodegradation.

BIOL 488. Molecular Biotechnology Laboratory. 2 Credits.
Pre-requisites: BIOL 485 or concurrent enrollment.
Experiments include basic analytical and separatory techniques, analytical and preparative fermentations, restriction analysis of viral DNA, RNA labelling and sequencing, tissue fractionation and lectin affinity column chromatography, DNA cloning, screening and blot analysis, mammalian cell culture and fusion, immunochemistry and in vitro translation.

BIOL 489. Topics in Molecular Biotechnology. 2 Credits.
Pre-requisites: BIOL 485, BIOL 488.
Readings and discussion of research and issues in molecular biotechnology.

BIOL 490. Senior Capstone. 5 Credits.
Pre-requisites: senior standing (135 credits), BIOL 310, and one of the following: BIOL 301, BIOL 302, BIOL 303, or BIOL 304.
Satisfies: senior capstone university graduation requirement. Integrated Studies in Form and Function, or Integrated Studies in Microbial and Molecular Biology, or Integrated Studies in Ecology and Evolutionary Biology. See your major department advisor for the appropriate section number. A laboratory is included.
BIOL 490A. BIOTECHNOLOGY CAPSTONE. 5 Credits.
Pre-requisites: senior standing, BIOL 485, BIOL 488, BIOL 489.
Satisfies: senior capstone university graduation requirement.
This capstone course is specific to the Biotechnology Option. Integration of lecture and laboratory experience to culminate in research project. See your major department. A laboratory is included.

BIOL 491. SENIOR THESIS. 5 Credits.
Pre-requisites: BIOL 483.
BIOL 491 is a Senior Thesis in clinical laboratory science at the affiliate hospital. Students will have lectures in ethics and professional behavior, management information and participate individually in small clinical laboratory experience and continue their training of advanced diagnostic work in clinical microbiology, clinical chemistry, hematology, and immunohematology. During this course, students will perform actual patient laboratory testing under the guidance of trained professionals. An individual senior project integrating practical and theoretical topics will be the culmination of this course.

BIOL 495. INTERNSHIP. 1-15 Credits.
Notes: only 5 credits will be allowed toward the electives.
Pre-requisites: permission of the instructor, department chair and college dean.

BIOL 496. EXPERIMENTAL COURSE. 1-5 Credits.

BIOL 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

BIOL 498. SEMINAR. 1-2 Credits.
Pre-requisites: advanced standing in departmental program.

BIOL 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

BIOL 500. RESEARCH SEMINAR. 1 Credit.
Notes: must be repeated for at least 2 credits.
Pre-requisites: admission to graduate program in biology.
Students develop and present seminars on their research to an audience of peers and faculty.

BIOL 501. SEMINAR PROGRAMMING. 1 Credit.
Notes: graded Pass/No Credit; students shall be enrolled in BIOL 501 during all quarters of residency when not enrolled in BIOL 500.
Pre-requisites: admission to graduate program in biology or permission of the instructor.
Students learn to host a scientific meeting by developing and distributing a scientific meeting program, making all necessary logistical arrangements for the meeting and conducting the meeting itself. The product produced is the Department of Biology's Graduate Student Symposium.

BIOL 505. LIMNOLOGY. 5 Credits.
Pre-requisites: admission to graduate program.
An in-depth study of the physical, chemical, and biological features of lakes and streams incorporating independent field work and/or synthesis of primary literature.

BIOL 509. MYCOLOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
Structure, physiology, ecology, and taxonomy of microfungi and mushrooms, with an emphasis on fungi of the Northwest and on the design and implementation of independent mycological experiments.

BIOL 510. BIOLOGICAL RESEARCH METHODS I. 4 Credits.
Pre-requisites: admission to the Biology Master's Program or permission of the instructor.
Methods of biological research, including scientific writing and presentation, utilization of scientific literature, and a brief introduction to experimental design and data analysis.

BIOL 511. BIOLOGICAL RESEARCH METHODS II. 4 Credits.
Pre-requisites: BIOL 510.
This course will explore implications of observational and experimental study design and expose students to quantitative hypothesis tests appropriate for the biological sciences.

BIOL 512. CURRENT TOPICS IN PHYSIOLOGY. 2 Credits.
Notes: may be repeated for credit.
Pre-requisites: admission to the biology master's program or permission of the instructor.
Current readings in a specialized area of physiology, including functional aspects of animals, plants or micro-organisms or functions common to two or more groups of organisms.

BIOL 513. CURRENT TOPICS IN CELL AND MOLECULAR BIOLOGY. 2 Credits.
Notes: may be repeated for credit.
Pre-requisites: admission to the biology master's program or permission of the instructor.
Current readings on selected topics of ecology and evolution. Topics will depend upon interests of instructor and students. Possible topics include: evolution of mating systems, aquatic ecology, community ecology, microevolutionary processes, population dynamics, evolution of life history strategies.

BIOL 514. CURRENT TOPICS IN ECOLOGY AND EVOLUTION. 2 Credits.
Pre-requisites: admission to the Biology Master's Program or permission of the instructor.
Current readings on selected topics of ecology and evolution. Topics will depend upon interests of instructor and students. Possible topics include: evolution of mating systems, aquatic ecology, community ecology, microevolutionary processes, population dynamics, evolution of life history strategies.

BIOL 515. GROWTH OF BIOLOGICAL THOUGHT. 2 Credits.
Pre-requisites: admission to the Biology Master's Program or permission of the instructor.
This course will include readings on topics such as changing biological paradigms, philosophies and ethical behavior of biologists in their historic as well as current context. Topics will be developed in relation to antecedent discoveries, available technology, political events and social climate.

BIOL 519. REVIEW OF LITERATURE. 1 Credit.
Presentations by faculty and graduate students of current biological research papers.

BIOL 520. EPIDEMIOLOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
A study of the factors which determine the frequencies and distributions of the communicable diseases among humans with an emphasis on independent synthesis of current literature.

BIOL 521. MEDICAL MICROBIOLOGY. 5 Credits.
Pre-requisites: BIOL 301.
The microbial agents of human disease, with an emphasis on bacteria.
BIOL 530. IMMUNOLOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
Immune reactions of animals with principal emphasis on those associated with infectious diseases. Students will conduct primary literature review.

BIOL 532. VIROLOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
The molecular biology of microbial, animal and plant viruses, especially those viruses associated with human and animal diseases and their host-parasite relationships with an emphasis on synthesis of primary literature.

BIOL 535. BIOLOGY OF CANCER. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
An advanced study of human neoplasms through synthesis of current literature.

BIOL 536. CELL BIOLOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
A comprehensive study of cellular biology from a structural and functional perspective incorporating independent laboratory and/or synthesis of primary literature.

BIOL 539. SPECIAL STUDIES. 1-5 Credits.

BIOL 542. CONSERVATION BIOLOGY. 4 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
Conservation biology is a synthetic discipline that has arisen in response to the current unprecedented rates of extinction and draws on a wide range of basic sciences and applied fields to address the problem of loss of biological diversity. This course examines the discipline of conservation biology, familiarizes students with literature in conservation biology, and provides students with a forum for discussion of some major topics in Conservation Biology. Students incorporate independent field work and/or synthesis of primary literature.

BIOL 543. WILDLIFE MANAGEMENT. 4 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
An examination of the historical and political development of wildlife management, the ecological principles that underpin management decisions, primary approaches, and current management issues incorporating independent field work and/or synthesis of primary literature.

BIOL 546. RIPARIAN ECOLOGY. 5 Credits.
Pre-requisites: admission to the Biology Master’s Program or permission of the instructor.
This course will focus on riparian areas (riparia), areas which experience intermittent flooding by water moving within a catchment. Riparia form the interface between terrestrial and aquatic habitats and perform critical ecosystem functions. This class will address riparian physical processes, biotic adaptations, human impacts, conservation, restoration and management.

BIOL 550. MAMMALOGY. 5 Credits.
Pre-requisites: admission to graduate program or permission of the instructor.
The classifications, life histories and ecology of mammals with an emphasis on independent field or literature review studies.
BIOL 595. INTERNSHIP. 1-15 Credits.
BIOL 596. EXPERIMENTAL COURSE. 1-5 Credits.
BIOL 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.
BIOL 598. SEMINAR. 1-5 Credits.
Students select, develop, and present seminars on selected topics in biology to an audience of peers and faculty.
BIOL 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
BIOL 600. THESIS RESEARCH. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Notes: Theses represent culmination of original research under direction of graduate committee.
BIOL 601. RESEARCH REPORT. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Non-thesis directed research. Not available for Master of Science in Biology.
BIOL 696. EXPERIMENTAL COURSE. 1-5 Credits.
Cross listed: BIOL 696.
BIOL 697. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: one workshop course for up to 5 credits may be used to fulfill graduate degree requirements.
BIOL 698. SEMINAR. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
BIOL 699. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
BIOL 700. THESIS RESEARCH. 1-10 Credits.
Notes: Theses represent culmination of original research under direction of graduate committee.

Business Administration (BADM)

BADM 500. ECONOMIC ANALYSIS. 4 Credits.
Notes: not open to those who have completed ECON 200 and ECON 201. This course does not count toward the MBA degree without permission of the MBA Director. This is an accelerated course in micro- and macroeconomic principles, including these topics: functioning of a price system, supply and demand, forms of markets, theory of factor income, market interventions by government, macroeconomic measurements, determinants of national income and output, effects of monetary and fiscal policy and long-term growth.

BADM 503. QUANTITATIVE ANALYSIS IN BUSINESS. 4 Credits.
Notes: this course does not count toward the MBA degree without permission of the MBA Director. An accelerated course in descriptive and inferential statistics, including basic regression analysis, chi-square analysis and quality control methodology.

BADM 504. PLANNING METHODS II: POPULATION AND ECONOMY. 5 Credits.
Cross listed: PLAN 504.
Pre-requisites: PLAN 503.
An introduction and application of population forecasting, economic analysis, and cost/benefit techniques and their application to planning problems. Students also learn to incorporate information from these techniques into professional planning reports and policy analysis.

BADM 505. ESSENTIALS OF ACCOUNTING. 4 Credits.
Notes: this course does not count toward the MBA degree without permission of the MBA Director. An accelerated course in understanding and using accounting information and accounting information systems in a business environment: includes coverage of both financial and managerial accounting information.

BADM 510. ECONOMIC DEVELOPMENT. 4 Credits.
Cross listed: ECON 575.
Notes: may be stacked with ECON 475.
Pre-requisites: ECON 200 and ECON 201.
Development prospects of present-day underdeveloped countries. Historical development of industrial countries by analogy. Attention given to both economic and non-economic factors in the development process and to population problems and human resource development.

BADM 515. MANAGERIAL ECONOMICS. 4 Credits.
This course is a study of economic theory and its specific applications to the manager’s decision-making.

BADM 518. URBAN AND REGIONAL ECONOMICS. 4 Credits.
Cross listed: ECON 558.
Notes: may be stacked with ECON 458.
Pre-requisites: ECON 200.
The major purpose of the course is to learn basic theories, methods and models in urban regional economics. First, we will consider basic models and theories to explain why, how and where urban areas exist, how urban areas have evolved over time and the location decisions of firms and households. Second, we will draw upon economic theories and use the tools of economics to analyze issues facing urban areas. These issues include urban poverty, congestion, crime, pollution, housing, foreclosure, segregation, drug usage, among others. We will consider policy options that can be used to address these issues and consider relevant economic research in the area.

BADM 520. DATA DRIVEN DECISION MAKING. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA program.
A career in management is likely to involve decision making based on data. It is important to be able to organize and use data appropriately and intelligently to make decisions. This course provides an understanding of the statistical and data analysis tools that are necessary in managerial decision making. It should make you aware of how data analysis tools can be used and misused within an organization.

BADM 530. CORPORATE FINANCE. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA Program.
This course covers an analysis of valuation issues and project analysis as well as the relationship between risk, capital structure, cost of capital and dividend policy. It examines contemporary issues and problems confronting financial managers.

BADM 531. FINANCIAL STATEMENT ANALYSIS. 4 Credits.
Pre-requisites: permission of the MBA director or admission to the MBA program.
This course prepares students to read, interpret and analyze financial statements. The course integrates various concepts and different procedures to provide both financial and accounting set of important analytical tools including abilities to read, interpret and compare financial statements, understand cash flow, different accounts on companies’ balance sheet and income statements, basic profitability and risk analysis issues, ratio analysis, assessment of company’s earnings, quality of earnings, valuation etc. The course utilizes study cases with real companies and actual financial statements to practice and reinforce material learned.
BADM 532. INTERNATIONAL FINANCIAL MANAGEMENT. 4 Credits.
Pre-requisites: permission of the MBA Director or admission into the MBA Program.
Surveys the important aspects of financial management in the international arena, including international financial markets, exchange rate determination, exchange rate and country risks, risk hedging and financial management in international organizations.

BADM 533. INTERNATIONAL INVESTMENTS. 4 Credits.
Pre-requisites: permission of the MBA Director or admission into the MBA Program.
This course examines foreign exchange rates and relationships, international asset pricing, differences in equity markets, analysis of equity and debt securities, global investing and diversification. It includes equity analysis and portfolio management.

BADM 534. INVESTMENTS. 4 Credits.
Pre-requisites: permission of the MBA Director or admission into the MBA Program.
This course examines basic securities analysis and valuation, investor objectives, the relationship between risk and return, sources of relevant information and portfolio theory. Practical application and current events will be emphasized.

BADM 539. SPECIAL TOPICS. 1-5 Credits.
Notes: some sections are graded Pass/No Credit.
Electives are designed to (1) help students enhance functional business skills by providing an in-depth study of a selected topic from a business core area and (2) expose students to a variety of environments in which business decision making skills are applied, such as international or not-for-profit organizations and/or specific industries, such as health care or service industries. The topics of specific BADM 539 courses offered each quarter are determined by a combination of student and faculty interest and availability.

BADM 540. MARKETING MANAGEMENT. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA program.
This course is a study of both the theoretical and applied aspects of the marketing process. It covers the elements of successful marketing strategies, marketing decision-making and the impact of marketing on business.

BADM 541. MANAGERIAL COMMUNICATIONS. 4 Credits.
Pre-requisites: admission to the MBA program and completion of the MBA foundation or permission of the MBA director.
This course is designed to refine the student's written, oral, and electronic communications skills as applied to the managerial environment within the organization.

BADM 542. GLOBAL MARKETING. 4 Credits.
Analysis of economic, cultural, political and competitive factors affecting firms in global markets. Examining the role of global marketing planning and strategy in overall firm growth and survival. And study of marketing in major trading blocs and developing markets.

BADM 543. LABOR RELATIONS. 2 Credits.
Cross listed: PADM 543.
This course covers a broad range of topics such as history of the labor movement, federal and state statutes covering this field, emergency operations planning and legislative lobbying efforts.

BADM 545. COLLECTIVE BARGAINING. 2 Credits.
Cross listed: PADM 545.
This course addresses the process of reaching agreement on a contract.

BADM 552. LEADERSHIP AND ETHICS. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA Program.
This course inquires as to leaders and leadership from a perspective of ethics. It asks the student to think about principled leadership through three complex lenses: personal character, accountability, and pragmatism (ethical action in an uncertain, competitive, and imperfect world). Each of these lenses reflects traditions in moral philosophy and each emphasizes fundamental aspects of leaders’ responsibilities. The objective of the course is an integrated understanding of the relationship between ethics and leadership achieved through study of the leader.

BADM 555. STRATEGIC OPERATIONS. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA Program.
This course is a study of business operations practice - including production technology transfer, cause-and-effect for operations problems, operations strategies and action plans - and their applications to managerial decision making.

BADM 560. DECISION MAKING AND ACCOUNT INFORMATION. 4 Credits.
Pre-requisites: permission of the MBA Director, or admission to the MBA Program.
This course focuses on the use of accounting information and accounting information systems in business decision-making.

BADM 564. E-COMMERCE. 4 Credits.
Electronic commerce includes not only selling/buying online but also much more broad activities, such as organizational internal processes supports, electronic collaboration among partners, distance learning, and virtual communities. This course explores how the landscape of E-Commerce is changing and evolving. It covers the important topics of E-Commerce, including selling and marketing online, businesses trading and collaborating with other businesses, internal business process supports, legal, ethical and tax issues. Web security, E-Commerce infrastructure, etc. The course balances the strategic and technological aspects of successful E-Commerce with real-world business cases. This course also introduces the latest technological developments which will significantly impact the current and future E-Commerce, such as wireless technology, RFID (radio frequency identification) GDSN (global data synchronization network), EPC global Network, etc.

BADM 567. GLOBAL ACCOUNTING ENVIRONMENT. 4 Credits.
This course provides an overview of international business theories within the context of international accounting issues, challenges and opportunities faced by multinationals regarding strategic and operational management overview that describes the factors that affect the final form of accounting including culture, institutions and the theory of the multinational firm. It then examines issues including corporate governance, international financial reporting, agency theory, earnings management and individual behavior using an institutional framework. It will also provide an awareness of the impact of contexts—different countries, industries, markets, and regulatory regimes—on the accounting and finance. It will enable students to focus on the analytical usefulness of accounting and finance data, but in a manner which emphasizes the importance of a wider business understanding for such analysis and the limitations.
BADM 570. INFORMATION TECHNOLOGY AND THE ORGANIZATION. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA Program.
This course analyzes the concepts and techniques underlying the development and control of information systems within the firm. It covers the impact of emergent information technologies on strategic planning and emphasizes computer-based management information systems.

BADM 577. ENTREPRENEURSHIP. 4 Credits.
Pre-requisites: permission of the MBA director or admission to the MBA program.
This course is designed to provide the student a rigorous experience in not only learning about global entrepreneurship, but also in developing a business plan for either their own existing firm or a start-up opportunity. While not a capstone course it does require the student to utilize previously learned information that can be incorporated in the business plan. Verbal and oral communication, as well as Internet based communication and searching, are of import in this course.

BADM 580. INTERNATIONAL BUSINESS ENVIRONMENTS. 4 Credits.
Pre-requisites: permission of the MBA Director or admission to the MBA Program.
This course provides an overview of the roles of business in the global economic, political, social and other environments in which businesses operate.

BADM 590. MBA CAPSTONE. 4 Credits.
Pre-requisites: permission of the MBA Director or both of the following: admission to the MBA Program and completion of all other core classes. The study of administrative processes under conditions of uncertainty including integrating analyses and policy determinations at the overall management level. Includes a synthesis of the principles of administrative management from the generalist's view and integrates prior specialized instruction in the basic functions of business and management. Provides an opportunity to develop a capacity for analyzing problems on a broad company-wide basis.

BADM 595. INTERNSHIP. 1-5 Credits.
Internship.

BADM 596. EXPERIMENTAL COURSE. 1-5 Credits.

BADM 598. GRADUATE SEMINAR. 2-4 Credits.

BADM 599. INDEPENDENT STUDY. 2-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

BADM 600. THESIS. 2-8 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent research study under the direction of a graduate advisory committee.

BADM 601. RESEARCH REPORT. 2-8 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent research resulting in a scholarly paper under the direction of the student's graduate committee chairperson.

BADM 603. FINAL PROJECT. 2 Credits.
Pre-requisites: must attempt completion of BADM 590 and receive a passing grade.
An individual advanced praxis project in which students, following the guidelines provided by the MBA program with the advice and editorial review of the chair of their comprehensive oral exam committee, develop a portfolio which is presented and discussed as part of the comprehensive oral exam for the MBA degree.

BADM 695. INTERNSHIP. 2-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

BADM 696. EXPERIMENTAL. 2-4 Credits.
Experimental.

Business Education (BUED)

BUED 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

BUED 299. DIRECTED STUDY. 1-15 Credits.

BUED 302. BUSINESS COMMUNICATION. 4 Credits.
Pre-requisites: junior standing.
This course focuses on oral and written communication strategies, theories and models with an emphasis on the principles of effective business writing in the digital workplace. Students approach small businesses to conduct both primary and secondary data in order to develop a research report and presentation. Students receive hands-on experience by working in collaborative groups and presenting the final report and presentation to the small business owner. The course is designed for all disciplines and a variety of majors.

BUED 376. MULTIMEDIA DOCUMENT DESIGN. 5 Credits.
Pre-requisites: junior standing.
This course instructs students in the current version of Microsoft Word, Excel, PowerPoint and Access and Adobe Illustrator to create and design formal and technical documents such as reports, letters, charts, spreadsheets, and databases. This course prepares students to take the Microsoft Office Specialist (MOS) Certification Exams in Word and Excel and, if desired, PowerPoint, Access, Outlook, OneNote, SharePoint, Excel Expert, and Word Expert.

BUED 396. EXPERIMENTAL COURSE. 1-5 Credits.

BUED 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

BUED 470. INTRODUCTION TO COMPUTER SCIENCE FOR TEACHERS. 4 Credits.
Pre-requisites: BUED 376.
In this course students learn best practices for teaching the following computer science concepts in order to develop computer science teaching skills: Global Impact/Social Issues, Programming, Computational Thinking, Computer Science Instructional Methodology, Mobile Applications, Area Networks (LAN and WAN.) In all sections of the class, you will learn the introductory steps and frameworks a teacher will need for student success in learning highly technical and advanced computer science topics for grades 4-12.
BUED 475. METHODS OF TEACHING BASIC BUSINESS, ACCOUNTING, BUSINESS ENGLISH AND MARKETING. 4 Credits.
Pre-requisites: ACCT 351, BUED 302, EDUC 341, MKTG 310.
This course provides an opportunity for students to further develop their accounting, basic business, business English and marketing knowledge. Students learn different methods while planning units and lesson plans. Students receive hands-on opportunities to demonstrate methodologies and classroom management in preparation for the business and marketing classroom by teaching content areas to an audience.

BUED 476. METHODS OF TEACHING KEYBOARDING AND MICROCOMPUTER APPLICATIONS. 4 Credits.
Pre-requisites: EDUC 341, BUED 376, BUED 470.
This course provides an opportunity for students to develop keyboarding and microcomputer applications' curriculum and methods, plan units and lesson plans and demonstrate methodologies and classroom management in preparation for the microcomputer applications classroom.

BUED 496. EXPERIMENTAL COURSE. 1-5 Credits.

BUED 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

BUED 498. SEMINAR. 1-5 Credits.

BUED 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

BUED 599. INDEPENDENT STUDY. 1-5 Credits.

BUED 600. THESIS IN BUSINESS EDUCATION. 1-5 Credits.

BUED 601. RESEARCH REPORT IN BUSINESS EDUCATION. 1-5 Credits.

BUED 695. INTERNSHIP-BUED. 1-5 Credits.

BUED 696. COLLEGE TEACHING INTERNSHIP. 1-5 Credits.

Career Services (CRSV)

CRSV 210. CAREER DEVELOPMENT. 2 Credits.
This course is designed to help undecided and undeclared students explore and define their individual major and career path. While some content is appropriate for students at all levels, the main focus will be for those students who are exploring majors and careers.

CRSV 295. INTERNSHIP. 1-2 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Internship.

CRSV 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

CRSV 298. SEMINAR. 1-5 Credits.
Seminar

CRSV 299. EXPERIMENTAL COURSE. 1-5 Credits.

CRSV 398. SEMINAR. 1-5 Credits.
Seminar

Career and Technical Education (CTED)

CTED 299. DIRECTED STUDY. 1-15 Credits.

CTED 300. INTRODUCTION TO CAREER AND TECHNICAL EDUCATION. 4 Credits.
Notes: Industry and Business Route/Plan 2 students may simultaneously take CTED 492.
Pre-requisites: acceptance into the CTE Plan 2 program.
An introduction to the elements of Career and Technical Education and Plan 2/business and Industry Route certification. This course includes current components of education in Washington State and the nation, the process for CTE certification, as well as the implication for CTE.

CTED 301. PHILOSOPHY OF CAREER AND TECHNICAL EDUCATION. 4 Credits.
Notes: Industry and Business Route/Plan 2 students may simultaneously take CTED 492.
Pre-requisites: junior standing or permission of the instructor.
Study of the role of Career and Technical Education (CTE) in the American education system at all levels including the history of CTE, program standards and frameworks, advisory committees, state and federal regulations, and CTE funding.

CTED 309. CTE CLASSROOM MANAGEMENT. 4 Credits.
Pre-requisites: acceptance into the CTE Plan 2 program.
Course addresses school law, issues of abuse and mandated reporting, as well as instructional practices that provide inclusive learning environments to support diverse learners at the secondary (7-12) level. Candidates develop skills in identifying barriers to student success, selecting strategies that support learners while differentiating learning for student success, and incorporating strategies to assist students in becoming self-managers and accountable for their actions and learning.

CTED 341. CTE SECONDARY STRATEGIES. 4 Credits.
Pre-requisites: acceptance into the CTE Plan 2 program.
Course addresses continuous improvement of teaching through reflective practices. Students develop edTPA lesson plans and focus on instructional alignment of assessments to standards and outcomes and evaluate instructional effectiveness through data collection and analysis. Throughout this course, participants will be collecting evidence of professional growth and reflection aligned to the teacher/principal evaluation project.

CTED 396. EXPERIMENTAL COURSE. 1-10 Credits.
Experimental.

CTED 398. SEMINAR. 1-15 Credits.

CTED 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CTED 474. ADMINISTRATION OF WORK-SITE EDUCATION. 4 Credits.
Notes: Industry and Business Route/Plan 2 students may simultaneously take CTED 485 and CTED 492.
Pre-requisites: CTED 301.
Course provides students the opportunity to satisfy the certification requirements for candidates pursuing qualifications to teach CTE work-site learning and career choices. Includes instruction in the areas of work-site learning, occupational analysis, student leadership, workplace safety, and advisory partnerships.
CTED 485. MANAGEMENT OF CTE PRACTICUM. 1 Credit.
Notes: Industry and Business Route/Plan 2 students may simultaneously take CTED 300, CTED 301 or CTED 474.
Pre-requisites: CTED 300 or concurrent enrollment.
Students will complete 60 hours of classroom instructional practicum to demonstrate student learning as well as an assessment tool for CTE certification.

CTED 492. CTE PROFESSIONAL PORTFOLIO. 4 Credits.
Notes: Industry and Business Route/Plan 2 students may simultaneously take CTED 301 or CTED 474.
Pre-requisites: CTED 300.
Students create a professional development portfolio to organize CTE competencies and curriculum design as they progress through the Plan2/ Business and Industry Route program.

CTED 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.

CTED 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CTED 498. SEMINAR. 1-15 Credits.

CTED 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Chemistry and Biochemistry (CHEM)

CHEM 100. INTRODUCTION TO CHEMISTRY. 5 Credits.
This course prepares those who have not had a satisfactory background in high school chemistry to take CHEM 151 or CHEM 161. Topics include the scientific method, SI and metric systems, unit conversions, atomic structure, periodic table, bonding, and stoichiometry. Laboratory work is included.

CHEM 121. CHEMISTRY AND ITS ROLE IN SOCIETY. 5 Credits.
Satisfies: GECR for natural sciences, chemistry.
Basic chemical principles are used to examine some of the chemistry that most directly impacts individuals and society on a day-to-day basis. The course is designed to develop in students an appreciation for the chemical basis of their bodies and their environment. Emphasis is placed on the dynamic nature of the field of chemistry and efforts are made to dispel many of the common misconceptions that nonscientists often have about chemistry and other natural sciences. Laboratory work is included.

CHEM 140. CRIMINALISTICS AND FORENSIC CHEMISTRY. 5 Credits.
Pre-requisites: two semesters of high school science or the equivalent are strongly recommended.
This course provides an overview of forensic science and criminalistics including history and the modern role of forensic science in the judicial system. Topics covered include DNA typing, trace evidence analysis, firearms and tool marks, and impression evidence. Laboratory work is included. Labs will focus on current forensic techniques.

CHEM 151. GENERAL CHEMISTRY. 5 Credits.
Pre-requisites: ≥2.0 in MATH 141 or concurrent enrollment; ≥2.0 in CHEM 100 or ≥2.0 in CHEM 161 or one year of high school chemistry.
Satisfies: the completion of CHEM 151 satisfies a GECR for natural sciences, chemistry.
Topics will include units, uncertainty in measurement, ionic nomenclature, structure of matter, chemical reactions and stoichiometry, thermochemistry, periodic table and chemical bonding. Quantitative and qualitative laboratory work is included.

CHEM 152. GENERAL CHEMISTRY. 5 Credits.
Pre-requisites: CHEM 151; ≥2.0 in MATH 141.
Satisfies: the completion of CHEM 151 and CHEM 152 satisfies a second GECR for natural sciences, chemistry.
Topics include properties of gases, liquids and solids; intermolecular forces; properties of solutions; chemical equilibrium and acid base equilibria. Laboratory work includes quantitative and qualitative analysis.

CHEM 153. GENERAL CHEMISTRY. 5 Credits.
Pre-requisites: CHEM 152.
Topics include kinetics, thermodynamics, electrochemistry, nuclear and/or chemistry of nonmetals, and transition metals and coordination chemistry. Laboratory work includes quantitative and qualitative analysis.

CHEM 161. GENERAL CHEMISTRY FOR THE HEALTH SCIENCES. 5 Credits.
Pre-requisites: Concurrent enrollment in or completion of MATH 104 or MATH 107 or MATH 141 or equivalent. A high school chemistry course or CHEM 100 is highly recommended.
Satisfies: a GECR for natural sciences, chemistry.
The course is a survey of organic chemistry for pre-nursing, pre-dental hygiene and allied health science students. Topics include atomic structure, the periodic table, stoichiometry, solutions, equilibrium, acids and bases. Laboratory work is included. A placement exam will be given during the first week of classes.

CHEM 162. ORGANIC CHEMISTRY FOR THE HEALTH SCIENCES. 5 Credits.
Pre-requisites: CHEM 161.
Satisfies: a GECR for natural sciences, chemistry.
The course is a survey of inorganic chemistry for pre-nursing, pre-dental hygiene and allied health science students. Topics include atomic structure, the periodic table, stoichiometry, solutions, equilibrium, acids and bases. Laboratory work is included.

CHEM 163. BIOCHEMISTRY FOR THE HEALTH SCIENCES. 5 Credits.
Pre-requisites: CHEM 162.
This course is a survey of biochemistry for pre-nursing, pre-dental hygiene, and allied health science students. Topics include amino acids, proteins, enzymes, lipids, carbohydrates, nucleic acids, biotechnology, and metabolic pathways. Laboratory work is included.

CHEM 196. EXPERIMENTAL COURSE. 1-5 Credits.

CHEM 199. DIRECTED STUDY. 1-5 Credits.

CHEM 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-10 Credits.

CHEM 304. QUANTITATIVE ANALYSIS. 6 Credits.
Pre-requisites: CHEM 153.
Theory and practice of gravimetric and volumetric analysis with an introduction to some elements of instrumental analysis.

CHEM 316. ENVIRONMENTAL CHEMISTRY. 5 Credits.
Pre-requisites: CHEM 151, CHEM 152, CHEM 153 or CHEM 161, CHEM 162, CHEM 163.
The course is an introduction to environmental chemistry covering both fundamental chemical principles and societal implications. Emphasis will be placed on local issues such as Hanford Nuclear Reservation and the environmental impact of mining. Laboratory work is included.

CHEM 319. MODERN INORGANIC CHEMISTRY. 4 Credits.
Pre-requisites: CHEM 153.
This course covers periodicity, group trends, structure-reactivity relationships of the elements and chemical reactions.
CHEM 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

CHEM 350. PRINCIPLES OF PHARMACOLOGY. 2 Credits.
Pre-requisites: CHEM 163, BIOL 233 or equivalent.
The course is primarily intended for the athletic training or other allied health science students. The course presents a review of the actions of over-the-counter drugs and an introduction to the principles of pharmacological action from the integrated foundations of physiology, organic chemistry, and biochemistry.

CHEM 351. ORGANIC CHEMISTRY. 4 Credits.
Pre-requisites: CHEM 153.
An integrated study of fundamental organic chemistry for Chemistry majors and students planning on careers in medicine, dentistry, pharmacology, engineering, or related fields. Emphasizes nomenclature, bonding, reactivity, stereochemistry, synthetic methods, reaction mechanisms, physical properties, and spectrometric identification of the principal classes of organic compounds, including biochemical examples.

CHEM 352. ORGANIC CHEMISTRY. 4 Credits.
Pre-requisites: CHEM 351.
An integrated study of fundamental organic chemistry for Chemistry majors and students planning on careers in medicine, dentistry, pharmacology, engineering, or related fields. Emphasizes nomenclature, bonding, reactivity, stereochemistry, synthetic methods, reaction mechanisms, physical properties, and spectrometric identification of the principal classes of organic compounds, including biochemical examples.

CHEM 353. ORGANIC CHEMISTRY. 3 Credits.
Pre-requisites: CHEM 352.
A comprehensive study of the chemistry of polyfunctional carbon compounds.

CHEM 357. NEUROPHARMACOLOGY. 2 Credits.
Pre-requisites: CHEM 163 and BIOL 233 or equivalent, or permission of the instructor.
The course is primarily intended for pre-medical, pre-dental, pre-pharmacy or other science students. Topics covered include CNS neurotransmitters and their pharmacology, various biochemical hypotheses for neurological disorders, and the pharmacology of a variety of psychoactive drug classes of use or abuse.

CHEM 372. ORGANIC CHEM LABORATORY I. 3 Credits.
Pre-requisites: CHEM 351.
This course is an introduction to the elementary techniques of the organic laboratory, including synthesis, application of chromatography, and spectrometry. This is a laboratory course.

CHEM 373. ORGANIC CHEM LABORATORY II. 3 Credits.
Pre-requisites: CHEM 352 and CHEM 372.
This course emphasizes spectrometry, synthesis, structure determination and advanced techniques in isolation, purification and analysis. This is a laboratory course.

CHEM 390. CHEMICAL METHODS IN SECONDARY SCHOOL. 2 Credits.
Pre-requisites: CHEM 153 and concurrent enrollment in SCED 390, or permission of the instructor.
This course is for chemistry majors planning to teach in the secondary schools. It includes organization of lesson materials and techniques, and evaluation methods.

CHEM 395. INTERNSHIP. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CHEM 396. EXPERIMENTAL COURSE. 1-6 Credits.
CHEM 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-10 Credits.
CHEM 399. DIRECTED STUDY. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Library or laboratory study of a chemical problem.

CHEM 416. ADVANCED ENVIRONMENTAL CHEMISTRY. 3 Credits.
Pre-requisites: CHEM 304, CHEM 316 and CHEM 352 (or concurrent), or permission of the instructor.
This course includes a detailed study of atmospheric, soil, water, and waste water chemistry. Aspects of environmental/analytical chemistry will be introduced. Laboratory work will cover aspects of sampling, instrumental and automated analysis, and regulatory requirements. Students will concentrate in the area of their particular interest, leading to a comprehensive written research report and presentation. Laboratory work is included.

CHEM 418. MODERN ANALYTICAL CHEMISTRY. 5 Credits.
Pre-requisites: CHEM 304.
Principles of recently developed methods of analytical chemistry.

CHEM 419. ADVANCED INORGANIC CHEMISTRY. 5 Credits.
Cross listed: CHEM 490.
Pre-requisites: CHEM 319 and CHEM 422.
Satisfies: senior capstone university graduation requirement.
The course covers ionic, covalent and metallic bonding, complexes, symmetry, acids and bases, molecular structure, and thermodynamics of inorganic reactions. It also introduces mechanisms and organometallic chemistry of selected groups of elements.

CHEM 420. INSTRUMENTAL ANALYSIS. 5 Credits.
Pre-requisites: CHEM 422 or permission of the instructor.
This course introduces instrumental methods of analysis. This is a laboratory course.

CHEM 421. PHYSICAL CHEMISTRY. 4 Credits.
Notes: for CHEM 421, completion of a computer programming course is strongly recommended.
Pre-requisites: CHEM 304, PHYS 133 or PHYS 153, MATH 162.
Classical and statistical thermodynamics, electrochemistry, quantum theory, kinetics, symmetry, spectroscopic, and diffraction methods of structure determination.

CHEM 422. PHYSICAL CHEMISTRY. 3 Credits.
Pre-requisites: CHEM 421.
Classical and statistical thermodynamics, electrochemistry, quantum theory, kinetics, symmetry, spectroscopic, and diffraction methods of structure determination.

CHEM 423. PHYSICAL CHEMISTRY. 3 Credits.
Pre-requisites: CHEM 422.
Classical and statistical thermodynamics, electrochemistry, quantum theory, kinetics, symmetry, spectroscopic, and diffraction methods of structure determination.
CHEM 431. PHYSICAL CHEMISTRY LABORATORY. 1 Credit.
Notes: for CHEM 421, completion of a computer programming course is strongly recommended.
Pre-requisites: concurrent enrollment in CHEM 421.
(See your Chemistry/Biochemistry advisor.) These courses cover data treatment, current physicochemical techniques, computer applications to chemical systems. These are laboratory courses.

CHEM 432. PHYSICAL CHEMISTRY LABORATORY. 2 Credits.
Pre-requisites: concurrent enrollment in CHEM 422.
These courses cover data treatment, current physicochemical techniques, computer applications to chemical systems. These are laboratory courses.

CHEM 433. PHYSICAL CHEMISTRY LABORATORY. 2 Credits.
Pre-requisites: concurrent enrollment in CHEM 423.
These courses cover data treatment, current physicochemical techniques, computer applications to chemical systems. These are laboratory courses.

CHEM 440. ADVANCED PHYSICAL CHEMISTRY. 4 Credits.
Pre-requisites: concurrent enrollment or completion of CHEM 423.
Further development of principles underlying molecular symmetry, group theory and quantum chemistry, with applications to molecular orbitals and molecular spectroscopy. Introduction to semi-empirical calculations of electronic properties of molecules and analysis of spectroscopic data.

CHEM 445. TOPICS IN FORENSIC CHEMISTRY. 5 Credits.
Pre-requisites: acceptance into BS forensic option.
This course includes a detailed investigation of current topics in forensic chemistry and forensic science. Topics will include courtroom testimony, laboratory accreditation, and analyst certification. Laboratory work is included.

CHEM 450. ADVANCED FORENSIC CHEMISTRY. 5 Credits.
Pre-requisites: acceptance into BS forensic option.
This course includes a detailed examination of the techniques of forensic chemistry including organic, inorganic, and instrumental analysis. Topics include gunshot residue, drugs and toxicology, paint, arson and explosives, and biochemical methods such as electrophoresis. Advanced topics in crime scene procedures, chain-of-custody, and quality assurance, will be discussed. Laboratory work is included.

CHEM 454. CLINICAL CHEMISTRY. 4 Credits.
Pre-requisites: CHEM 304 and CHEM 352.
This course is an introduction to both the methodologies involved in the analyses of diagnostically important compounds in clinical chemistry, (i.e., spectroscopy, ion-selective electrodes, enzymology, immunoassays and liquid chromatography), and the biochemical and physiological correlations of normal and disease states. This is intended for medical technology and chemistry majors and students with interests in medical sciences.

CHEM 465. ADVANCED ORGANIC CHEMISTRY. 2 Credits.
Pre-requisites: CHEM 353 and CHEM 421 or permission of the instructor.
This course is an in-depth study of the mechanisms of organic reactions in vitro and in vivo, coupled to a detailed investigation of current techniques in structural analysis of organic compounds.

CHEM 466. STRUCTURAL ANALYTICAL TECHNIQUES IN ORGANIC CHEMISTRY. 2 Credits.
Pre-requisites: CHEM 353 and CHEM 421, or permission of the instructor.
This course is an in-depth study of modern analytical techniques used in the structural analysis of organic compounds. This course will comprise both theory and practical experience with the instruments. Topics covered include UV, IR, NMR, mass spectrometry, and chromatography. This is a laboratory course with lecture included.

CHEM 471. PRE-MEDICAL, DENTAL, VETERINARY AND PHARMACY PREPARATION. 1-2 Credits.
Pre-requisites: CHEM 480 or permission of instructor. Prepares students for their application to medical, dental, veterinary or pharmacy school and for professional activities.

CHEM 480. BIOCHEMISTRY. 5 Credits.
Pre-requisites: CHEM 352 (or concurrent enrollment). Note for the Biochemistry Option only, concurrent enrollment or completion of BIOL 310 is suggested and CHEM 483 must be taken concurrently.
(see your Chemistry/Biochemistry advisor.) This course covers elements of biochemistry, including the structure and function of the major classes of proteins, nucleic acids, carbohydrates and lipids.

CHEM 481. INTERMEDIARY METABOLISM. 5 Credits.
Pre-requisites: CHEM 480.
Biosynthesis and metabolism of nucleotides, carbohydrates, lipids, amino acids, and steroids; regulation and integration of biochemical pathways.

CHEM 482. INTEGRATED TOPICS IN BIOCHEMISTRY AND BIOPHYSICS. 3 Credits.
Pre-requisites: CHEM 480.
Explores energy pathways, signal transduction pathways and genetic information pathways in living organisms. Provides a chemical perspective of the key principles of bioenergetics and membrane transport. Specific topics, discussed at a molecular level, are selected from, but not limited to, the following: electron transport, proton pumping, and ATP production in mitochondria and chloroplasts; hormone induced signal transduction; RNA synthesis and processing, and protein synthesis and processing.

CHEM 483. BIOCHEMISTRY LABORATORY. 2 Credits.
Pre-requisites: concurrent enrollment or completion of CHEM 480.
Experiments include basic analytical and separatory techniques applied to problems in nucleotide identification, lipid turnover, photosynthesis, enzyme kinetics and cell fractionation.

CHEM 484. BIOCHEMISTRY LABORATORY. 2 Credits.
Pre-requisites: concurrent enrollment or completion of CHEM 480.
Experiments include basic analytical and separatory techniques applied to problems in nucleotide identification, lipid turnover, photosynthesis, enzyme kinetics, and cell fractionation.

CHEM 490. SENIOR CAPSTONE. 5 Credits.
Cross listed: CHEM 419.
Pre-requisites: CHEM 319 and CHEM 422.
Satisfies: senior capstone university graduation requirement.
The course covers ionic, covalent and metallic bonding, complexes, symmetry, acids and bases, molecular structure, and thermodynamics of inorganic reactions. It also introduces mechanisms and organometallic chemistry of selected groups of elements.

CHEM 491. SENIOR THESIS. 4-6 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
Directed research in your area of chemistry leading to an oral presentation and written report. See your advisor for further information.
CHST 101. INTRODUCTION TO CHICANO CULTURE. 5 Credits.
Cross listed: ANTH 161.
Satisfies: cultural and gender diversity university graduation requirement.
A study of Chicano culture providing an initial overview of its roots and conflicts. Specific components discussed are cultural identity, customs, language, psychology and the arts.

CHST 196. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

CHST 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-3 Credits.
Workshop, short course, conference.

CHST 199. DIRECTED STUDY. 1-5 Credits.
Directed Study

CHST 201. LATINAS/OS IN CONTEMPORARY AMERICAN SOCIETY. 5 Credits.
Cross listed: ANTH 201.
Satisfies: cultural and gender diversity university graduation requirement.
The course examines the experience of the other Latinos (Hispanics) in the United States: Puerto Rican, Cuban American and Central Americans. The course presents a brief historical overview of their entrance in American Society and a demographic comparison of significant socio-economic variables of the groups. The primary focus of the course is to examine the social and cultural profile of the Puerto Rican, Cuban and Central American groups in the U.S. The course covers historical, social and cultural themes, which include the impact of American institutions on identity, culture, language, the family and the future implications of immigration from Latin America.

CHST 218. CHICANO HISTORY. 5 Credits.
Cross listed: HIST 218.
Satisfies: cultural and gender diversity university graduation requirement.
This course offers a study of Chicano history from the time of the Treaty of Guadalupe Hidalgo in 1848, to the present. Specific themes discussed include the Mexican American War, the Treaty of Guadalupe Hidalgo of 1848, the economic, political and social conditions after the Anglo-American conquest of the southwest, Mexican immigration to the U.S., Chicano labor history, the Chicano movement and other Chicano themes.

CHST 230. CHICANAS AND LATINAS IN THE U.S.. 5 Credits.
Pre-requisites: CHST 101 or ANTH 161.
This course provides a description and analysis of the experience of Chicanas and Latinas in the United States. First, the course presents a review of Chicana studies scholarship and the evolution of Chicana feminist theory. Next, the course examines the historical, cultural, political and social-economic themes which define the experience of Chicanas/Latinas in the United States.

CHST 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop, short course, conference.

CHST 300. SURVEY OF CHICANO LITERATURE. 5 Credits.
Cross listed: ENGL 498 (may be cross-listed).
Notes: CHST 101 or CHST 218 recommended.
This course will offer students an overview of the historical development and current trends in Chicano Literature. The course will focus on the literary forms of poetry, novel, and the short story. The class will give students an understanding of various theoretical approaches utilized in critically analyzing literary works. Students will be expected to read, discuss, and apply theoretical techniques on specific Chicano literary works.

CHST 310. LATINAS/OS IN THE U.S. MEDIA. 5 Credits.
Pre-requisites: CHST 101, CHST 218, ANTH 161 or HIST 218 or permission of instructor.
This course surveys how Latinos and Latinas have been depicted in film, news, television and other media formats in the United States. The first section of the course examines Hollywood depictions of the Latino/a experience in the film industry from the early period of U.S. cinema to contemporary representations as well as the depiction of US Latinos/as in Mexican cinema. The second section examines the depictions of Latinos/as in television and the news. Finally, the course presents the emergence of Chicano cinema from the early documentary to the full length dramatic feature.

CHST 320. CHICANO-LATINO POLITICS IN AMERICA. 5 Credits.
Cross listed: POLI 350 (may be cross-listed).
Notes: CHST 101 or CHST 218 recommended.
The purpose of this course is to study the political reality of Latinos in the United States: a heterogeneous group made up largely of Mexican, Puerto Rican, Cuban American origin and others (Central and South Americans). The focus taken in this class is to look at the Latino population in terms of its orientation to the political system, its institutions and actors and their participation in the electoral process. The course will examine the political orientation of the Latino community towards power, authority, role of government and actions taken by governmental bodies and linkages to political participation. Overall, the goal of the course is for students to have a better understanding of the political experience of the second largest racial/ethnic group in the United States.
CHST 330. LATINO IMMIGRATION TO THE U.S.. 5 Credits.
**Pre-requisites:** CHST 101, CHST 218, ANTH 161, HIST 218 or permission of the instructor.
This course is a historical overview of Latino immigration from Mexico, Central America, and the Caribbean. Special attention is given to the largest Latino sub groups in the United States. This course examines the social phenomenon of labor migration and immigration from Latin America and places it in the context of political economic national inequalities. Themes covered in the course include the transnational character of Latino immigrants, the political economy of immigration, the social and cultural impact of immigrants in the U.S. Latino communities and the transnational economic links between the sending and receiving communities.

CHST 331. LATINO FAMILY IN THE U.S.. 5 Credits.
**Pre-requisites:** CHST 101, CHST 218, ANTH 161, HIST 218 or permission of the instructor.
This course presents an overview of the general direction of current scholarship on the Chicano/Latino family, with a special focus on basic familial structure and the dynamics of change. First, the course examines traditional interpretations and methodologies and suggests alternative theoretical perspectives. Second, the course examines research issues such as familism, machismo, gender roles, parenting, divorce, family violence, aging, immigration and family, and public policy on family life.

CHST 340. LATINA/O COMMUNITIES IN THE U.S.: FIELD RESEARCH IN CHICANA/O, LATIN/A STUDIES. 5 Credits.
The course is designed to accomplish three objectives. First it presents a typology of the diverse experience of Latina O/Communities in the US. Second, it provides a critical review of theories and methods utilized in the study of the Chicana/o-Latino experience in the US. Third, it incorporates a field research component whereby students apply the theories and methods examined in the course.

CHST 396. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

CHST 398. SEMINARS. 1-5 Credits.
Seminar

CHST 420. READINGS IN DECOLONIZATION. 5 Credits.
**Cross listed:** IDST 420.
**Pre-requisites:** IDST 101 and CHST 101 or ANTH 161.
This course grounds students in the theory and concepts of colonization, decolonization and indigenous peoples in America, with brief comparisons with global indigenous peoples and experiences. Through that theoretical understanding, students examine and formulate ways in which decolonization can impact and be integrated into indigenous lives and communities in a meaningful way.

CHST 495. INTERNSHIP/PRACTICUM. 1-5 Credits.
**Pre-requisites:** permission of the instructor, department chair and college dean.

CHST 496. EXPERIMENTAL COURSES. 1-5 Credits.
Experimental

CHST 498. SEMINAR. 1-5 Credits.
Chicano topics discussed from various disciplines including the humanities and social sciences.

CHST 499. DIRECTED STUDY. 1-5 Credits.
**Pre-requisites:** permission of the instructor, department chair and college dean.
An in-depth, independent research project.

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**Children's Studies (CDST)**

CDST 195. INTERNSHIP. 1-5 Credits.

CDST 301. INTRODUCTION TO CHILDREN'S STUDIES. 2 Credits.
Students will be introduced to the history of Children's Studies and the guiding framework or philosophy. They will also have the opportunity to learn how to develop a professional growth plan and to construct and assess their knowledge through the development of portfolios.

CDST 330. RESEARCH METHODS FOR STUDYING CHILDREN AND CHILDHOOD. 4 Credits.
This course introduces students to research that helps us understand children's lives and experiences. The course examines core research methods, multicultural philosophies and ethical considerations given the power dynamics between adult researchers and child subjects. Students become familiar with scientific methods as applied in research with children, including methods for data collection and skills in analytic techniques.

CDST 402. CHILDREN'S RIGHTS. 5 Credits.
**Pre-requisites:** CDST 301.
This course provides an extended examination of children's rights, in both national and global contexts. Students are introduced to the history of the children's rights movement, the development and impact of the United Nations Convention on the Rights of the Child, and various theories, perspectives and issues within the children's rights field.

CDST 411. CHILD LIFE THEORY. 5 Credits.
**Pre-requisites:** CDST 301.
This course involves the careful examination of children and their families in a healthcare setting. It is taught from the perspective of a Child Life Specialist to aid in minimizing the stress and anxiety experienced during hospitalization. It focuses on educational and play components, and the general support and scope of practice unique to the field.

CDST 412. HEALTH AND CHILDREN. 5 Credits.
**Pre-requisites:** CDST 301.
This course introduces concepts and issues in the area of children's health. Using a holistic framework, the course examines the wellbeing of children, including their physical, mental, emotional, social, and spiritual growth and development. The course covers programmatic strategies, social and family support, community practice models and policy that address issues such as child welfare, nutrition and safety management.

CDST 413. MEDIA AND CHILDREN. 5 Credits.
**Pre-requisites:** CDST 301.
This course focuses on the developmental impacts that modern media has on children and adolescents. Exploration of media covers such issues as advertising, violence, video games, sexuality, drugs, body image, eating disorders, music and the Internet. Students research problems and beneficial aspects of media.

CDST 421. PLAY AND PLAYWORK. 4 Credits.
**Pre-requisites:** CDST 301.
Students research definitions, history, theories, forms and functions of play. Students examine the different environments for play throughout history. Topics include free play, value of toys and games, children's digital play, and the roles of creativity and marketing in today's society.
CDST 422. CHILDREN’S LOSS AND GRIEF. 4 Credits.
Pre-requisites: CDST 301.
This course explores the ways children experience loss, including death, at different developmental stages and how different cultures view children’s grief. The course introduces students to a variety of organizational situations where adults work with children who are experiencing loss and grief.

CDST 439. TOPICS IN CHILDREN’S STUDIES. 5 Credits.
Notes: may be repeated for credit, providing the title is different.
This variable topic class explores current issues and interests in the field of children’s studies. Topics might include children’s studies perspectives on contemporary issues, current research issues of specific faculty or deeper investigation of topics covered in core courses. Topics or issues that might be covered in this course range from play to children’s activism.

CDST 490. SENIOR CAPSSTONE. 4 Credits.
Pre-requisites: senior standing or approval of instructor.
Satisfies: senior capstone university graduation requirement.
This course is designed to move from basic understandings of children’s studies and the multiple disciplines from which it emerges to an integrated and unified interdisciplinary understanding. Integration of learning will be facilitated through service learning or community-based research projects in collaboration with local organizations that address children’s issues.

CDST 492. CHILDREN’S STUDIES SENIOR PORTFOLIO. 2 Credits.
Pre-requisites: senior standing or approval of instructor.
Building on the portfolio process, students will develop and present an exit portfolio. This process will include identifying personal and career objectives; discussing content; developing themes; choosing formats; and revising personal statements, narrative, and resumes. Exit portfolios will be used for program assessment.

CDST 495. CHILDREN’S STUDIES INTERNSHIP. 1-10 Credits.
Pre-requisites: senior standing or approval of instructor.
Students receive academic credit for internships supervised within organizations working with or for children. The internship is initiated by the student and facilitated by their academic advisor, their site supervisor and the Career Services Internship Office. Students complete a Learning Contract, which outlines expectations, roles and responsibilities, as well as the process of documentation and evaluation.

CDST 496. EXPERIMENTAL. 1-5 Credits.
Experimental.

CDST 498. SEMINAR. 1-5 Credits.

CDST 499. DIRECTED STUDY. 1-15 Credits.

Chinese (CHIN)

CHIN 101. FIRST-YEAR CHINESE I. 5 Credits.
The beginning Chinese sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

CHIN 102. FIRST-YEAR CHINESE II. 5 Credits.
Pre-requisites: CHIN 101 or equivalent.
The beginning Chinese sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

CHIN 103. FIRST-YEAR CHINESE III. 5 Credits.
Pre-requisites: CHIN 102 or equivalent.
The beginning Chinese sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

CHIN 199. SPECIAL STUDIES. 1-5 Credits.

CHIN 201. SECOND-YEAR CHINESE I. 5 Credits.
Pre-requisites: CHIN 103 or equivalent.
Second year sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

CHIN 202. SECOND-YEAR CHINESE II. 5 Credits.
Pre-requisites: CHIN 201 or equivalent.
Second year sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

CHIN 203. SECOND-YEAR CHINESE III. 5 Credits.
Pre-requisites: CHIN 202 or equivalent.
Second year sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

CHIN 299. SPECIAL STUDIES. 1-5 Credits.

CHIN 399. DIRECTED STUDY. 1-5 Credits.

College Instruction (COIN)

COIN 571. SURVEY POST-SECONDARY EDUCATION. 4 Credits.
Focuses on the role and purpose of adult and higher education through a study of educational issues. Students will develop a personal philosophy of adult and higher education. Special attention is given to the role of the two-year community college.

COIN 572. STRATEGIES FOR TEACHING ADULTS. 4 Credits.
A study of teaching-learning processes suitable for adult education, and analysis of the educational theories from which they derive.

COIN 581. WORKSHOP IN COLLEGE TEACHING. 3 Credits.
Supervised training in various teaching strategies for large group, small group and individualized instruction.

COIN 599. INDEPENDENT STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individually negotiated studies in an area of post-secondary education, under the guidance and supervision of a graduate advisory committee.

COIN 600. THESIS. 1-15 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
A research study in a negotiated area of post-secondary education, supervised by a member of the college instruction faculty.

COIN 601. RESEARCH REPORT. 1-15 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
A research study in a negotiated area of post-secondary education, under the guidance and supervision of a graduate advisory committee.

COIN 696. COLLEGE TEACHING INTERNSHIP. 1-15 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: COIN 572 or COIN 581.
Enrollment with permission of the College Instruction program advisor. Teaching under supervision at a two-year or four-year college, or other appropriate institution. Includes regular instructional responsibilities and additional planned experience.
Communication Sciences and Disorders (CMSD)

**CMSD 301S. INTRODUCTION TO SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY. 3 Credits.**
This course provides an overview of speech, hearing and language development, disorders and remediation for students who may have an interest in this discipline as a career choice.

**CMSD 304S. PHONETICS. 3 Credits.**
This course examines the motor and acoustic aspects of speech production, description, and classification of English phonemes, and broad transcription using the International Phonetic Alphabet (IPA).

**CMSD 320S. SPEECH AND HEARING SCIENCES. 3 Credits.**
Pre-requisites: completion of Natural Science GECRs or permission of the instructor.
This course is a study of acoustics and psychoacoustics of speech and hearing.

**CMSD 321S. ANATOMY AND PHYSIOLOGY OF SPEECH PRODUCTION. 3 Credits.**
Pre-requisites: completion of Natural Science GECRs or permission of the instructor.
This course is a study of anatomy, physiology and physics as related to speech and voice production.

**CMSD 331S. LANGUAGE DEVELOPMENT. 3 Credits.**
This course examines the basic principles and sequences of language development; methods of observing, measuring, and describing children's acquisition of language.

**CMSD 357S. LANGUAGE IMPAIRMENT. 3 Credits.**
Pre-requisites: CMSD 301S, CMSD 331S or permission of the instructor.
This course addresses the measurement as well as analysis of developing language as well as etiology, assessment and intervention for developmental language disorders.

**CMSD 358S. SPEECH SOUND DISORDERS. 3 Credits.**
Pre-requisites: CMSD 301S and CMSD 304S or permission of the instructor.
This course describes normal phonological and articulatory development as well as the etiology, assessment and intervention of articulation and phonological disorders.

**CMSD 371S. HEARING AND HEARING DISORDERS. 3 Credits.**
This course is a study of aural anatomy and physiology, as well as etiology, pathology, and treatment of hearing impairment.

**CMSD 372S. AUDIOMETRY. 3 Credits.**
Pre-requisites: CMSD 301S and CMSD 371S.
This course is a study of acoustics and psychoacoustics, as well as principles of auditory testing and interpretation of hearing tests.

**CMSD 405S. SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY IN THE SCHOOL. 3 Credits.**
Pre-requisites: permission of the instructor and fulfillment of additional state requirements.
This course ideally precedes the student teaching experience. Information is provided about the special issues and problems encountered by professional practice in the public school setting.

**CMSD 422S. NEUROANATOMY. 3 Credits.**
Pre-requisites: CMSD 321.
This course is a study of the normal anatomy and physiology of the nervous system and its role in communication processes.

**CMSD 441S. ASSESSMENT OF SPEECH AND LANGUAGE. 3 Credits.**
This course addresses the principles and techniques for assessing communication disorders, including formal and informal assessment methods, practical experience in test administration, theoretical and ethical issues, report writing, and the relationship of assessment to treatment.

**CMSD 442S. INTERVENTION FOR SPEECH AND LANGUAGE DISORDERS. 3 Credits.**
Pre-requisites: senior standing or permission of instructor.
This course addresses the development of intervention plans, including intervention strategies and rationale, construction of daily therapy plans, methods for data collection, and interpretation and evaluation of therapy outcomes.

**CMSD 450S. LANGUAGE AND LITERACY. 3 Credits.**
Pre-requisites: CMSD 331S.
Building upon CMSD 331S, this course examines the relationship between early language development and later development of literacy skills. Issues related to language disorders and concomitant deficiencies in literacy acquisition will be discussed.

**CMSD 451S. NEUROGENIC COMMUNICATION DISORDERS. 3 Credits.**
Pre-requisites: CMSD 422S or permission of the instructor.
This course provides an introduction to the etiology, assessment and intervention of communication disorders associated with neurological disorders.

**CMSD 452S. TOPICS IN CONTINUING EDUCATION. 0.75-3.5 Credits.**
This course is offered in cooperation with the Meadowood Speech and Hearing Camp in Pendleton, Oregon. Student volunteers earn college credit while learning state of the art strategies working with children exhibiting a variety of speech, language, and hearing disorders.

**CMSD 455S. VOICE AND RESONANCE DISORDERS. 3 Credits.**
Pre-requisites: CMSD 321S.
This course addresses the anatomy and physiology of the vocal mechanism with an overview of functional, congenital, and acquired voice disorders.

**CMSD 456S. FLUENCY DISORDERS. 3 Credits.**
Pre-requisites: senior standing or permission of the instructor.
This course provides definitions and descriptions of fluency disorders, discussing their effects on the speaker and listener. It examines various theories of the etiology of stuttering as well as its assessment and treatment in children and adults.

**CMSD 461S. CLINICAL METHODS. 2 Credits.**
Notes: must be taken twice for the PB Certificate.
Pre-requisites: senior standing or permission of instructor.
This course offers students the opportunity to observe communication disorder assessment and intervention. The students will be introduced to the basic essential ingredients of good therapy. The skills will be introduced and discussed in a classroom setting and reinforced through guided observation of speech-language and audiological assessment and intervention services within a clinical setting. Limited supervised practicum in the assessment and treatment of individuals with communication disorders may be assigned.

**CMSD 473S. AURAL REHABILITATION. 3 Credits.**
Pre-requisites: COMD 371 and COMD 372, or permission of the instructor.
This course addresses the objectives, theory and techniques used in managing hearing impairments of individuals.
CMSD 480S. INTRODUCTION TO RESEARCH IN COMMUNICATION DISORDERS. 3 Credits.
Pre-requisites: senior standing.
This course provides an overview of research methodology in the field of communication disorders. It is designed to familiarize the student with basic elements of reading, understanding, and evaluating research. The student learns about the scientific method, the difference between basic and applied research, and important terms used in the research process.

CMSD 490S. SENIOR CAPSTONE: PROFESSIONAL ISSUES IN COMMUNICATION DISORDERS. 3 Credits.
Pre-requisites: senior standing or permission of the instructor.
Satisfies: senior capstone university graduation requirement.
This course focuses on the integration of the knowledge the student has accumulated in the field of communication disorders and its application to issues affecting both professionals and individuals served. The course will strive to facilitate students' thinking on these issues by requiring the completion of an assignment in which students must integrate their body of knowledge in the profession and apply it to a novel issue or problem.

CMSD 495S. INTENSIVE STUTTERING INTERVENTION: SSMP. 3 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
The Successful Stuttering Management Program is an intensive clinical experience/seminar where students learn the foundation of Stuttering Modification Therapy as they work independently and collaboratively with other students and their supervisors. The Successful Stuttering Management Program is designed for adolescent and adult stutterers.

CMSD 496S. EXPERIMENTAL. 1-3 Credits.
Experimental.

CMSD 497S. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-3 Credits.
Notes: graded Pass/Fail.
Workshop, short course, conference, seminar.

CMSD 498S. SEMINAR. 1-3 Credits.
Seminar.

CMSD 499S. DIRECTED STUDY. 1-3 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
This course is provided to allow the student to study a selected special topic within the discipline of communication disorders on an individual basis and under the direction of a program faculty member.

CMSD 520S. RESEARCH METHODS. 3 Credits.
This course inaugurates the students' research experience in the discipline. It emphasizes the importance of research to a scientific field and acquaints the student with the research literature. By the end of the course, students will have completed the introduction, review of literature and question components of their research proposals.

CMSD 538S. PHONOLOGICAL ACQUISITION AND BEHAVIOR. 3 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course involves advanced study in the theoretical background of the acquisition and development of the phonological system. The relationship between the phonological system and disorders and remediation will also be discussed.

CMSD 539S. SPECIAL TOPICS. 1-3 Credits.
Special Topics.

CMSD 540S. PEDIATRIC FEEDING AND SWALLOWING. 1 Credit.
Pre-requisites: graduate standing or permission of the instructor.
This course is a study of normal and atypical swallowing and feeding in infants and children.

CMSD 542S. INFANT AND TODDLER COMMUNICATION AND LANGUAGE. 3 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course provides advanced study in communication and language development and disorders in infants and toddlers by focusing on current theory, assessment and remediation.

CMSD 543S. SCHOOL-AGE AND ADOLESCENT LANGUAGE. 3 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course covers the development of language in typically developing and language impaired school aged and adolescent students. Various language disorders are discussed with the implications for assessment and intervention.

CMSD 545S. AUTISM SPECTRUM DISORDER. 2 Credits.
Pre-requisites: COMD 542.
This course is an overview and discussion of the characteristics, causes, assessment and intervention for persons with autism spectrum disorder (ASD).

CMSD 547S. AUGMENTATIVE COMMUNICATION. 3 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course is an in-depth study of the use of augmentative and alternative methods of communication for persons with severe speech and/or language impairments.

CMSD 550S. SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY IN THE SCHOOLS. 2 Credits.
Pre-requisites: graduate standing or permission of instructor.
This course provides the required credit hours of coursework related to laws, policy and ethical issues involved in providing speech-language therapy and audiology services within the public education setting; helps prepare students for public school practicum; and fulfills partial requirements for educational staff associates (ESA) certification.

CMSD 552S. NEUROPATHOLOGIES OF LANGUAGE. 3 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course is an advanced study of the language disorders that occur as a result of insult to the brain after birth, particularly after language acquisition. Emphasis is on aphasia and related disorders.

CMSD 553S. VOICE AND RESONANCE. 2 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course provides information regarding the etiology and characteristics of disorders of the laryngeal and resonance systems. Assessment and treatment of loudness, pitch, vocal and resonance problems are presented.

CMSD 554S. MOTOR SPEECH DISORDERS. 3 Credits.

CMSD 555S. BILINGUAL AND CULTURAL ISSUES. 2 Credits.

CMSD 556S. PROBLEMS IN STUTTERING. 2 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course is an advanced study of current theories, issues, problems and treatment approaches in the area of stuttering.

CMSD 557S. CLEFT PALATE AND OTHER CRANIO-FACIAL ABNORMALITIES. 2 Credits.
Pre-requisites: graduate standing or permission of the instructor.
This course examines the etiology and characteristics of cranio-facial anomalies and their effects on communication. Assessment and treatment of the speech problems associated with these disorders are also discussed.
CMST 200. INTRODUCTION TO SPEECH COMMUNICATION. 4 Credits.
Notes: CMST 200 cannot be taken for credit towards the Communication Studies Majors.
Analyzes verbal interaction, barriers to communication, effective listening and the application of fundamental principles to one-to-one, small group and one-to-many experiences.

Communication Studies (CMST)
CMST 195. INTERNSHIP. 1-5 Credits.
CMST 196. EXPERIMENTAL COURSE. 1-15 Credits.
CMST 199. DIRECTED STUDY. 1 Credit.
CMST 200. INTRODUCTION TO SPEECH COMMUNICATION. 4 Credits.
Notes: CMST 200 cannot be taken for credit towards the Communication Studies Majors.
Analyzes verbal interaction, barriers to communication, effective listening and the application of fundamental principles to one-to-one, small group and one-to-many experiences.
CMST 201. PUBLIC SPEAKING. 5 Credits.
This course is the study of the basic principles of public communication. This is a course in design, delivery, organization, and presentation of speeches for public groups with an emphasis on informative and persuasive speeches, message delivery, and presentation of visual aids.

CMST 207. COMMUNICATION, COMMUNITY AND CITIZENSHIP. 5 Credits.
This course is designed to develop critical thinking skills as exhibited in reasoning and argumentation, with a further goal of examining how the power of an individual’s voice can affect society. This course begins with a study of the rhetorical tradition of reasoning and argumentation, including elements of ethics. As the course progresses students will analyze, from historical to modern times, examples of individuals using their voice and the resulting impact upon society. The course will culminate with students creating a reasoned, ethical argument as a final project.

CMST 208. MASS MEDIA AND THE INFORMATION SOCIETY. 5 Credits.
Satisfies: GECR for social sciences, list 2, anthropology, geography, psychology and sociology.
This course introduces students to the range of historical, cultural, economic and social issues affected by the development and continued evolution of mass media. Books, magazines, sound and video recording, the development of electronic media and of the internet provide the context for examinations of media uses and effects, media policy and law and social effects of media.

CMST 209. COMMUNICATION, COMMUNITY AND CITIZENSHIP. 5 Credits.
This course is designed to develop critical thinking skills as exhibited in reasoning and argumentation, with a further goal of examining how the power of an individual’s voice can affect society. The course begins with a study of the rhetorical tradition of reasoning and argumentation, including elements of ethics. As the course progresses students will analyze, from historical to modern times, examples of individuals using their voice and the resulting impact upon society. The course will culminate with students creating a reasoned, ethical argument as a final project.

CMST 210. INTERPERSONAL COMMUNICATION. 5 Credits.
This course is an exploration of the human communication process. It includes the perceptual and attribution processes surrounding messages, the construction of verbal and nonverbal messages, the functions of messages in interaction, and the role of interpersonal communication processes on a variety of interpersonal relationship types.

CMST 250. SMALL GROUP COMMUNICATION. 5 Credits.
This course focuses upon theories, concepts, and skills to improve small group communication with application to various task-oriented groups. This course emphasizes problem-solving communication and participant-leadership skills.

CMST 296. EXPERIMENTAL COURSE. 1-15 Credits.
CMST 299. DIRECTED STUDY. 3-10 Credits.
CMST 300. VISUAL LITERACY. 5 Credits.
Cross listed: DESN 300.
This course helps students develop the set of skills needed to critically interpret images of the past and present and produce images that effectively communicate a message to an audience. This includes an awareness of technology’s role in the creation and dissemination of visual communication along with the role of persuasive strategies to target visual consumers. Students will both analyze and produce rhetorical-visual images and develop the skills needed to manage visual representation in a cultural context.

CMST 301. POLITICAL COMMUNICATION. 5 Credits.
How Americans use oral and televisual communication to confront and change their environment. Emphasis on American speakers in American political contexts. Topics vary.

CMST 305. MESSAGE DELIVERY. 4 Credits.
Pre-requisites: junior standing.
Analysis and application of message delivery techniques, focusing on voice and articulation, modes of delivery and style, communication apprehension, situational factors and visual support.

CMST 309. COMMUNICATION AND INFORMATION. 5 Credits.
An introduction to the history and development of communication theory. This is the first course in the communication major as well as the first course in communication theory. Topics include theory development, observation techniques, a survey of theories, and ethical questions.

CMST 312. NONVERBAL COMMUNICATION. 1-5 Credits.
This course is a variable credit course and will be offered from one to five credits. Topics that may be covered include the other-than-words side of human interaction within different cultures, genders, relationships, and situations. There will be an emphasis on the basic theories of nonverbal communication and the interaction between nonverbal and verbal communication.

CMST 314. GENDER AND COMMUNICATION. 5 Credits.
Cross listed: WMST 314.
Pre-requisites: sophomore standing.
Satisfies: cultural and gender diversity university graduation requirement.
This course examines current research on the interactions among language, gender and communication in contemporary social and cultural contexts.

CMST 326. DEBATE. 1-3 Credits.
Notes: this course may be repeated for a total of 6 credits applied toward the CMST major or minor.
The in-class portion of this course teaches how to create, analyze and critique ideas and how to build or defend a reasoned argument. The out-of-class competition portion of this course includes individual events, such as informative and persuasive speaking and oral interpretation.

CMST 330. INTEGRATED METHODS FOR COMMUNICATION RESEARCH. 5 Credits.
Pre-requisites: declared Major in CMST or PR, Interdisciplinary Studies with a CMST emphasis.
An introduction to the core group of scientific methods and analytic techniques used in communication research.
CMST 331. INTERVIEWING. 5 Credits.
This course is an introduction to the principles of interviewing theory and practice. It is considered to be the first course in the BS in Organizational Communication major. The communication components of interviewing are examined from both the interviewer’s and the interviewee’s perspective. Topics include the process of planning, managing, and analyzing the interview. Then, a variety of topical interviews such as selection, performance review, counseling, discipline, termination, focus groups, research, information gathering, information giving, media, sales, and client intake are examined through this process in an organizational and communication context.

CMST 335. CONFERENCE MANAGEMENT. 1-5 Credits.
Notes: may be repeated up to 6 credits.
Focuses on the analytical and critical investigation of the communication process in the conference setting as a means of enhancing communication effectiveness. Provides hands-on experience in selecting a conference theme, designing a public conference, recruiting resource people, advertising the conference, registering participants, and conducting the conference.

CMST 340. INTERCULTURAL COMMUNICATION. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement.
Study of the basic principles of face-to-face interaction in intercultural and cross-ethnic situations. Topics include perception, stereotypes, prejudice, world views, ethnocentrism, racism, the attribution process and uncertainty reduction.

CMST 351. COMMUNICATIVE REASONING. 5 Credits.
Logical development and support of arguments, analysis of evidence, briefing of arguments, and practice in debate. In addition, this course is designed to prepare students to use practical reasoning applied to persuasive communication situations, to give students a general background on the basic principles of argumentation, and to engage critical and analytical thinking skills in order to identify, understand, and resolve communication problems.

CMST 395. FIELD WORK. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Directed student participation in the communication processes or problems of an industry, a political campaign, or a non-profit organization.

CMST 396. EXPERIMENTAL COURSE. 1-15 Credits.

CMST 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Training programs or workshops emphasizing practical knowledge and skills. Topics vary.

CMST 398. SEMINAR. 1-5 Credits.

CMST 399. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects reflect recent developments in the field of human communication.

CMST 400. MESSAGE DESIGN. 5 Credits.
An investigation of message construction for large, public audiences. Stress on invention, organization, and style. Includes speech writing and written message design.

CMST 410. LANGUAGE AND SOCIAL INTERACTION. 5 Credits.
A study of language and communication from two aspects: form and strategy. The formal study entails the examination of patterns, rules and structures of language, conversation, and discourse. The strategy study focuses on the use of language and communication for accomplishing identity goals, relational goals, and instrumental goals.

CMST 411. NEGOTIATION SKILLS AND STRATEGIES. 5 Credits.
The basic premise of this course is that one needs strong negotiation and analytical skills for effective communication. Hence, the goal of this course is to help the student to understand the theory of negotiation and to master its main strategies. The course will allow the student to develop negotiation skills experientially and to appreciate the nature and role of effective negotiation. The course is relevant to any student pursuing a career in a social science field since, as a working professional, the student will face many conflict problems that can be best resolved through effective negotiation.

CMST 413. COMMUNICATION AND PERSONAL RELATIONSHIPS. 5 Credits.
An advanced examination of the verbal and nonverbal communication processes in the development, maintenance, breakdown, and repair of personal relationships, including romantic, friendship, and family relationships.

CMST 416. GENDER AND MEDIA. 5 Credits.
Cross listed: WMST 416.
Pre-requisites: junior standing.
This course examines some of the relationships between media in the U.S. and social constructions of gender and sexuality.

CMST 418. TOPICS IN SEMIOTICS. 5 Credits.
The basic premise of this course is that communication is a process whereby meanings are generated and interpreted through signs. Hence, the overall goal of the course is to show how the process of generation and interpretation of meaning can be studied from the perspective of semiotics, i.e., the discipline that studies signs and their meanings. The course provides a general introduction to the nature, role, and kinds of signs in communication. The subject matter of semiotics, or sign theory, is illustrated in such areas as language, myth, media, etc.

CMST 419. SEX, SEXUALITY AND COMMUNICATION. 5 Credits.
Cross listed: WMST 419.
Pre-requisites: one WMST course or CMST course.
This seminar examines the construction of sexuality and sexual identity through communication, with a focus on the relationship between public policy and private sexuality.

CMST 420. HEALTH COMMUNICATION. 5 Credits.
This course surveys theory, research and practice in health communication and health literacy. Topics include clinician-patient interaction, family communication, group and organizational communication, mass media and web-based campaigns.

CMST 430. COMMUNICATION IN ORGANIZATIONS. 5 Credits.
The study of communication systems, channels, networks, and barriers; the role of communication in organizational assessment and change; the relationship between communication practices and organizational effectiveness, corporate image, and credibility.

CMST 431. COMMUNICATION LAW AND ETHICS. 5 Credits.
This course examines the legal limitations on human communication, as well as the rights and responsibilities of professional communicators.
CMST 432. MEDIA SYSTEMS AND COMMUNICATION TECHNOLOGY. 5 Credits.
This course is designed to allow students to explore mass media systems and technology and their interaction with and upon society. Students will learn the historical perspective of media systems and technology along with issues of media convergence upon our lives, specifically upon our communication.

CMST 438. TOPICS IN LEADERSHIP AND STRATEGIC COMMUNICATION. 5 Credits.
This course is a variable topic course focusing on leadership and/or strategic communication. Areas which might be covered include skills training, readings in the knowledge and techniques of leadership, and the effective use of strategic communication. This course is designed to be both a theory and application course.

CMST 440. GLOBAL COMMUNICATION. 5 Credits.
Satisfies: international studies university graduation requirement. The course provides a critical overview of the field of global communications and examines its main theoretical concepts and practical cases. The course introduces the students to the psychological, social, political and economic dimensions of global communications and their relationship with cultural and technological processes. The course will help the students to become more critical consumers of global news. The course includes such topics as freedom of expression, globalization, propaganda, gate-keeping, technology diffusion, cultural imperialism, media and diasporas, the global digital divide and global surveillance.

CMST 450. RHETORICAL THEORY AND CRITICISM. 5 Credits.
This course will survey contemporary theories of rhetorical communication and analyze areas of methodological controversy. We will discuss topics such as communication's role in defining humanity, power and communication, marginal groups and public discourse, gender/sex and rhetoric, evidence and public policy argument, and the impact of emerging communication technologies on methodological applications. We will operate from the assumption that language reflects, selects, and deflects reality in its construction of how we perceive the world.

CMST 451. ARGUMENTATION AND PERSUASION. 5 Credits.
This course is designed to introduce students to a variety of theoretical perspectives and views of argumentation and persuasion, with a particular focus on both logical development and support of arguments and effective persuasion in today's world. Students examine current texts and images to see how to create powerful persuasive messages. Students create and critique arguments and persuasive messages necessary for effective performance as a producer and consumer of persuasive communication.

CMST 452. CULTURAL STUDIES. 5 Credits.
This course is designed as an introduction to theoretical, historical developments, and current issues of cultural studies as an interdisciplinary subject. In this course key topics in culture and communication will be discussed, such as language, representation, subjectivity, power, ideology, identity, modernity and post-modernity, and globalization.

CMST 458. TOPICS IN IMAGE, MESSAGES AND MEANING. 5 Credits.
This course allows students to learn effective visual and written communication in the creation of meaning. Students will be offered the opportunity to gain knowledge and build on this information by evaluating others' efforts at message design, and then by creating their own effective image and/or message to convey meaning.

CMST 475. ELECTRONIC SURVEILLANCE AND PRIVACY. 5 Credits.
The course examines the social implications of a world in which everyday life is increasingly subject to electronic surveillance. The course begins with a survey of the theoretical and policy approaches to understanding the growth of electronic surveillance and its consequences. As the course progresses, students will conduct in-depth analyses of various modes of surveillance. The course concludes with a critical assessment of regulatory approaches to surveillance.

CMST 480. PRE-INTERNSHIP WORKSHOP. 2 Credits.
Must be taken at least one quarter before internship. May be taken as early as the first quarter of the junior year.

CMST 481. INTERNSHIP WORKSHOP. 2 Credits.
Must be taken at the same time as the internship, CMST 495.

CMST 490. SENIOR CAPSTONE. 5 Credits.
Satisfies: senior capstone university graduation requirement. Senior Capstone is a required course for all students graduating with degrees in Communication Studies. Communication topics integrated into course content will include audiences, codes, interaction, power and influence, strategy, ethics, messages and contexts. In a seminar format and focused on contemporary issues relating to communication, the course will focus on the professional development of communication studies students. Students will also prepare and defend a portfolio.

CMST 495. INTERNSHIP/PRACTICUM. 3-15 Credits.
Pre-requisites: CMST 480; must be taken concurrently with CMST 481; permission of the instructor, department chair and college dean. Directly supervised student practicum in the internal and/or external communication processes of a business or professional organization.

CMST 496. EXPERIMENTAL COURSE. 1-5 Credits.
See EagleNET for current listings.

CMST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Training programs or workshops designed to give you practical knowledge and skills in specific areas of communication.

CMST 498. SEMINAR. 1-5 Credits.
Notes: may be repeated for credit.
Major speech communication issues in the areas of public address, group communication, rhetorical theory, speech education, speech criticism, argumentation, persuasion or intercultural communication.

CMST 499. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: junior standing, permission of the instructor, department chair and college dean. Individual study projects in a selected area of human communication.

CMST 501. ADVANCED COMMUNICATION THEORY. 5 Credits.
This advanced course emphasizes the role of theory in the process of communication inquiry. The course covers a variety of communication theories, reflecting the diverse aspects of the field. In the course communication is analyzed from several theoretical standpoints: as message transfer, as practical art, as mediation by signs, as sharing of experiences, as socio-cultural order, and as arrangement of power. The course shows how advanced theory can be used in the analysis of traditional and emerging communication contexts. (Cross-listed CEDP 501)

CMST 502. CONTEMPORARY TRENDS IN COMMUNICATION STUDIES. 5 Credits.
Pre-requisites: CMST 501.
A survey of the progress of research in communication theory and the exploration of the directions the research will take in the 21st century.
CMST 504. COMMUNICATION SYSTEMS. 4 Credits.
The course consolidates and extends existing knowledge of media and mass communications as institutions and sets of practices. The interlinkage of media forms, institutional constraints, ideologies, law and economics are explored as these affect the construction and interpretation of specific media messages.

CMST 520. COMMUNICATION INQUIRY. 5 Credits.
This course is designed to provide students with knowledge of the history and philosophy of science. This course is the first in a three part sequence on research methods. This course provides the theoretical basis of research methodology.

CMST 521. RESEARCH DESIGN AND ANALYSIS I. 5 Credits.
Pre-requisites: completion of a statistics course (undergraduate or graduate level) and CMST 520.
This course is designed to present experimental and survey methodologies, with a special emphasis upon knowing when to choose which method, how to apply the method and how to interpret the results. Computer statistical analyses are a requirement of this course. Information on how to write qualitative research reports will also be presented and students will be expected to write a quantitative research report.

CMST 522. RESEARCH DESIGN AND ANALYSIS II. 5 Credits.
Pre-requisites: completion of a statistics course (undergraduate or graduate level) and CMST 520.
This course is designed to present a minimum of three qualitative methods, with a special focus upon acquiring the ability to apply and understand the results from these methods. Computer programs and basic statistical analysis may be a requirement of this course. Information on how to write qualitative research reports will also be presented and students will be expected to write a qualitative research report.

CMST 530. COMMUNICATION IN ORGANIZATIONS. 5 Credits.
The focus is on communication systems, channels, networks, and barriers. Also included is a consideration of the role of communication in organizational change, auditing organizational communications, the relationship between communication and organizational effectiveness, and communication training programs.

CMST 539. SPECIAL TOPICS. 1-5 Credits.

CMST 550. PROBLEMS IN CONTEMPORARY PUBLIC COMMUNICATION. 5 Credits.
Problems inherent in adjusting ideas to people in the United States primarily during the last 15 years. Discussion of rhetorical strategy and tactics included in public apologia, demagoguery, conflict, public argument, and persuasion.

CMST 568. INTRODUCTION TO GRADUATE STUDIES. 2 Credits.
Pre-requisites: graduate standing or permission of the instructor.
The course is designed to introduce new students to the expectations of our graduate program. Students will learn to write a review of the literature, meet faculty members and learn of the various interdisciplinary concepts of study available in the program.

CMST 569. THESIS PREPARATION. 1 Credit.
Pre-requisites: 10 credit hours of graduate coursework.
The class is designed as a workshop to help MSC students develop a proposal for their master’s thesis or research project. Students in other programs may find it useful as well.

CMST 570. COMMUNICATION AND CULTURAL STUDIES. 5 Credits.
Pre-requisites: admission to a graduate program or the instructor’s permission.
This course examines the post-structuralist and interdisciplinary roots of cultural studies and explores the theoretical and methodological problems and issues central to cultural studies scholarship, including the construct of subcultures and the relationship of power to the cultural formations of identity and difference, institutions, ideologies, artifacts, consumption and production. Skills and methods: social change advocacy, critical analysis, writing, presentation, and the synthesis, conceptualization, and evaluation of how we theorize about, interpret, and critique cultural artifacts and practices.

CMST 578. SEMINAR IN CONSULTING PROCESSES. 2 Credits.
This course is designed to present the types of professional consulting and general approaches to consulting methodology. It outlines the basic knowledge, skills, and resources that are tools for consulting; introduces the nature and role of change; and helps students to evaluate their own consulting skills and to design a program to improve them.

CMST 596. EXPERIMENTAL COURSE. 1-5 Credits.

CMST 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

CMST 598. SEMINAR. 1-5 Credits.

CMST 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual study projects in a selected area of human communication.

CMST 600. THESIS. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent research study under the direction of a graduate advisory committee.

CMST 601. GRADUATE RESEARCH IN COMMUNICATION STUDIES. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CMST 602. EXAM PREPARATION. 1-2 Credits.
Pre-requisites: submission and approval of candidacy form; permission of the instructor, department chair and college dean.
Directed course of reading and study under the direction of a faculty member serving on the student’s comprehensive examination committee (Option B).

Computer Literacy (CPLA)

CPLA 100. COMPUTER LITERACY I. 1 Credit.
Notes: graded Pass/No Credit; passing this course gives clearance of Computer Literacy Part I; does not count toward the 180 credit requirement.
Satisfies: pre-university basic skills, computer literacy.
This course is an introduction to computer concepts. Hardware, software and operating systems are presented on both Windows and Mac platforms. An introduction to word processing, presentation software and an introduction to basic Internet use are provided.
CP 101. COMPUTER LITERACY II. 1 Credit.

Notes: passing the literacy exam at the end of this course gives clearance of Computer Literacy Part II.

Pre-requisites: CPLA 100 or Computer Literacy Part I clearance.

Satisfies: university competencies, computer literacy.

This course introduces students to fundamental computer concepts designed to give an overview of computers, the Internet and The World Wide Web. Students will develop knowledge and skills in word processing, presentation software, spreadsheets, databases, web page creation and locating informational and reference materials using simple and refined Internet searches. No previous computer background is assumed.

CP 120. COMPUTER APPLICATIONS LITERACY. 5 Credits.

Notes: this course includes preparation for and testing of Computer Literacy I and II so that students may satisfy computer literacy requirements by taking this course and passing the literacy tests.

This course introduces students to fundamental computer concepts designed to give an overview of computers, the Internet and The World Wide Web. Students will develop knowledge and skills in word processing, presentation software, spreadsheets, databases, web page creation and locating informational and reference materials using simple and refined Internet searches. No previous computer background is assumed.

CP 121. INTERMEDIATE COMPUTER APPLICATIONS LITERACY. 5 Credits.

Pre-requisites: CPLA 100 and CPLA 101 or CPLA 120.

A study of popular microcomputer software including, but not limited to word processing, electronic spreadsheet, database, desktop publishing, presentation graphics, internet and web tools. Course uses the Windows environment.

CP 196. EXPERIMENTAL COURSE. 1-5 Credits.

CP 198. SEMINAR. 1-5 Credits.

CP 199. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: Permission of the instructor, department chair and college dean.

CP 215. INTERNET AND WWW BASICS. 2 Credits.

Pre-requisites: Computer Literacy II clearance.

Investigation of the Internet and the World Wide Web (WWW). Web searching and research techniques on the Web are presented. Each student will create a home page. Use of electronic mail, mailing lists, newsgroups, and FTP will be explored. Issues associated with the Internet and WWW will be discussed including privacy and social impact. Projects utilizing the Internet and WWW are major parts of the course.

CP 296. EXPERIMENTAL COURSE. 1-5 Credits.

CP 298. SEMINAR. 1-5 Credits.

CP 299. DIRECTED STUDY. 1-10 Credits.

CP 396. EXPERIMENTAL COURSE. 3-4 Credits.

CP 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CP 398. SEMINAR. 2-5 Credits.

CP 399. DIRECTED STUDY. 1-10 Credits.

CP 496. EXPERIMENTAL COURSE. 1-5 Credits.

CP 499. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: Permission of the instructor, department chair and college dean.

CP 599. DIRECTED STUDY. 1-5 Credits.

CP 601. RESEARCH REPORT. 2-16 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

A research study in lieu of a bound thesis conducted as partial fulfillment of a master's degree under the direction of a graduate committee.

Computer Science (CSCD)

CSCD 110. INTRODUCTION TO PROGRAMMING. 5 Credits.

Students learn fundamental programming concepts, programming environment topics and current technologies in computing. Programming concepts include structure and design using pseudo-code, basic syntax, variables, arithmetic, decisions, repetition, input and output. Programming environment topics include editor use, saving, compiling, running and debugging. Programming projects are required.

CSCD 196. EXPERIMENTAL COURSE. 1-5 Credits.

CSCD 198. SEMINAR IN COMPUTER SCIENCE. 1-5 Credits.

CSCD 199. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

CSCD 210. PROGRAMMING PRINCIPLES I. 5 Credits.

Pre-requisites: MATH 141 and previous programming experience HIGHLY RECOMMENDED.

This course covers the concepts and practices of information representation, computer algorithms, hardware organization and computer program design and implementation. Students write, run, debug, analyze and evaluate computer programs. Topics include primitive data types, number systems, file I/O classes, control structures, method design and usage, array–sorting and searching algorithms. Programming projects are required.

CSCD 211. PROGRAMMING PRINCIPLES II. 5 Credits.

Pre-requisites: CSCD 210 with a grade ≥2.5, MATH 142 with a grade ≥2.0.

This course continues coverage of concepts introduced in Programming Principles I. Topics include 2D arrays, recursion, data abstraction, polymorphism, inheritance, interfaces, inner classes, abstract classes, object cloning, file I/O, exception handling and linked lists. Programming projects are required.

CSCD 216. 3D MODELING and ANIMATION I. 4 Credits.

This course includes the fundamental concepts and implementation of 3D animation using current 3D modeling and animation software. Topics include basics of modeling, texturing and animation. This course requires 3D projects.

CSCD 240. C AND UNIX PROGRAMMING. 5 Credits.

Pre-requisites: CSCD 211 with a grade ≥2.5 or concurrent enrollment.

This course includes program development tools of the UNIX operating system and syntax and programming techniques of the C language in that environment. UNIX topics include interactive shells, common text editors, utility programs, file system structure, libraries and operating system calls and system programming. C topics include data types, structures, pointers and pointer arithmetic, arrays, linked lists, and function design and use. Programming projects are required.
CSCD 255. C PROGRAMMING FOR ENGINEERS. 5 Credits.
Pre-requisites: MATH 141 or math proficiency.
This course is an introduction to the C language in the context of beginning computer science concepts and engineering practices. Students will write, run, debug, analyze and evaluate C programs. Topics include primitive data types, number systems, file I/O, control structures, function design and usage, 1D arrays, sorting, searching and pointers. Programming projects are required.

CSCD 260. ARCHITECTURE AND ORGANIZATION. 4 Credits.
Pre-requisites: CSCD 240 with a grade ≥2.5, EENG 160 with a grade ≥2.0.
This course covers fundamentals of digital computer design and microcomputer systems. Topics include number systems, Boolean algebra, basic digital circuits, and an instruction set for a microprocessor. Homework assignments will include use of current software for the design, analysis, and simulation of digital circuits, assembly language programming emphasizing I/O device access and features that support high level languages. Programming projects are required.

CSCD 296. EXPERIMENTAL COURSE. 1-5 Credits.
CSCD 298. SEMINAR. 1-5 Credits.
CSCD 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects studied vary according to student and faculty interest.

CSCD 300. DATA STRUCTURES. 5 Credits.
Pre-requisites: CSCD 211 with a grade ≥2.5, MATH 301 with a grade ≥2.0.
This course covers fundamental abstract concepts of data structures as well as their implementation in a programming language. Topics include linked lists, stacks, queues, hashing, recursion, complexity analysis of algorithms, binary search trees and heaps. Programming projects with formal documentation are required.

CSCD 303. COMPUTER AND INFORMATION SECURITY. 4 Credits.
Pre-requisites: computer literacy clearance. This course covers fundamentals of computing security, including threat types, how computers become infected with viruses and malware, how to avoid viruses and malware, and how to secure your computers and information stored on them. Possible topics include: operating system security, email security, internet security, virus and spyware scanners, browser tools, firewalls and other defensive techniques. The course includes hands-on practice with security tools and techniques.

CSCD 305. C++ PROGRAMMING. 4 Credits.
Pre-requisites: CSCD 240 with a grade ≥2.5 or CSCD 211 with a grade ≥2.5 and CSCD 255 with a grade ≥2.5.
This course teaches the C++ programming language. Topics include basic syntax, pointers, memory management, classes, inheritance and polymorphism, exception handling, standard template library usage, namespaces, memory management, and graphical user interface (GUI) programming. Programming projects are required.

CSCD 310. DISCRETE STRUCTURES. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, EENG 160 with a grade ≥2.0, MATH 301 with a grade ≥2.0, advancement programming exam clearance.
This course studies mathematical aspects of computer science with emphasis on data structures and algorithmic implementation. Topics include logic, methods of proof, set theory, relations and functions, numerical representations, cardinality, computability, combinatorics, discrete probability, computational complexity and graph theory.
CSCD 370. GUI PROGRAMMING. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, advancement programming exam clearance.
This course explores programming techniques for the production of graphical user interfaces. Event driven programming is covered in detail. Topics include event handling, windows and dialogs, GUI widgets such as menus, toolbars, buttons, sliders, combo boxes, lists and scrolling. Multi-threading as it applies to GUI programming is also introduced. Programming projects are required.

CSCD 371. .NET PROGRAMMING. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, advancement programming exam clearance.
This course introduces .NET Programming and the .NET framework. Emphasis will be placed on understanding the syntactical features of the language and how to effectively use the design of the language in conjunction with the .NET Framework. Topics include .NET fundamentals, .NET assemblies, language fundamentals, object oriented design and programming, delegates and events, threading, serialization, database connectivity, windows and dialogs, and GUI components. Programming projects are required.

CSCD 372. ANDROID MOBILE DEVELOPMENT. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, advancement programming exam clearance.
This course introduces Android Programming and the Android framework. Emphasis is placed on understanding the syntactical features of the language, as well as how to effectively use the design of the language in conjunction with mobile development. Topics include event handling, windows and dialogs, and GUI components. Programming projects are required.

CSCD 373. iOS MOBILE DEVELOPMENT. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, advancement programming exam clearance.
This course introduces iOS programming and the Apple framework. Emphasis is placed on understanding the syntactical features of the language and how to effectively use the design of the language in conjunction with mobile development. Topics include event handling, windows and dialogs, and GUI components. Programming projects are required.

CSCD 378. WEB APPLICATION DEVELOPMENT. 4 Credits.
Pre-requisites: CSCD 327 with a grade ≥2.5, DESN 368 or XHTML/HTML knowledge (highly recommended) or permission of the instructor.
This course examines the fundamental principles and techniques associated with the development of multi-tier web applications. Topics include web standards, portability, and usability. Programming projects are required.

CSCD 379. .NET WEB APPLICATION DEVELOPMENT. 4 Credits.
Pre-requisites: CSCD 327 with a grade ≥2.5 DESN 368 or XHTML/HTML knowledge (highly recommended) or permission of the instructor.
This course examines the fundamental principles and techniques associated with the development of multi-tier web applications, using the .NET Framework. Topics include web standards, portability, and usability. Programming projects are required.

CSCD 386. SOUND SPACES. 3 Credits.
Pre-requisites: DESN 385.
This course is a project-oriented course for designing, building, composing and performing with new instruments. Students will be encouraged to collaborate in the learning process and share their knowledge and experiences. The course is interdisciplinary in nature. Ideally the class would consist of students with backgrounds in music, programming and engineering.

CSCD 395. INTERNSHIP. 1-10 Credits.
Notes: graded Pass/Fail.
Pre-requisites: permission of the instructor, department chair and college dean.

CSCD 396. EXPERIMENTAL COURSE. 1-5 Credits.

CSCD 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CSCD 398. SEMINAR. 2-5 Credits.

CSCD 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CSCD 402. COMPUTING ETHICS. 4 Credits.
Pre-requisites: senior standing.
This course explores the uses of computing technologies from a socio-cultural perspective, including the impacts of information systems on individuals, organizations, and society and future directions in which the forces of technology and computing are tending to move us.

CSCD 409. SCIENTIFIC PROGRAMMING. 4 Credits.
Pre-requisites: MATH 161 with a grade ≥2.0 and MATH 231 with a grade ≥2.0 or MATH 301 with a grade ≥2.0.
This course provides an introduction to scientific computing in a programmable mathematics-oriented environment such as Matlab or Octave. Topics include programming constructs, data visualization, solutions to linear systems of equations and algebraic approaches to root-finding, signal processing, interpolation and optimization. Programming projects are required.

CSCD 411. MULTIMEDIA TECHNIQUES. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5 and advancement programming exam clearance or permission of instructor.
The theory and creation of multimedia using professional software is covered. This course stresses the appropriate development of a user interface. Several programming projects and research will be required.

CSCD 414. MULTIMEDIA PROGRAMMING. 4 Credits.
Pre-requisites: CSCD 411 with a grade ≥2.5 or permission of instructor.
This course studies object-oriented programming for multimedia. Students will write object-oriented programs that work with web servers and databases to create rich internet applications. Programming projects are required.

CSCD 416. 3D MODELING AND ANIMATION II. 4 Credits.
Pre-requisites: CSCD 216 with a grade ≥2.5.
This course covers intermediate 3D modeling and animation, including creation of aesthetic and technical work by manipulating light, surface materials, soft body dynamics and other features. Topics include photorealism, spline surface modeling, character development, lighting and camera techniques. This course requires projects.
CSCD 417. 3D MODELING AND ANIMATION III. 4 Credits.
Pre-requisites: CSCD 416 with a grade ≥2.5.
This course studies advanced 3D modeling, animation theory and application including creation of characters and creatures that come alive. Topics include organic modeling of character forms, analysis of character movement and 3D scripting. This course requires projects.

CSCD 418. 3D MODELING AND ANIMATION IV. 4 Credits.
Pre-requisites: CSCD 417 with a grade ≥2.5.
This course studies extensions of advanced 3D modeling, animation theory and application including further advanced 3D animation concepts. Topics addressed will include lip synchronization, facial expressions and 3D scripting. This course requires 3D projects.

CSCD 420. AUTOMATA. 4 Credits.
Pre-requisites: MATH 301 with a grade ≥2.0 or MATH 225 with a grade ≥2.0 or permission of instructor. Some prior programming experience is recommended.
This course is a study of the algebraic, structural and logical properties of sequential machines. Projects are required.

CSCD 423. PROBABILISTIC METHODS IN COMPUTER SCIENCE. 4 Credits.
Notes: may be stacked with CSCD 523.
Pre-requisites: CSCD 320 with a grade ≥2.5.
This course introduces the use of probability in computer science algorithm design and analysis. The course covers two subfields. One is the design of randomized algorithms, where decisions at some steps are determined by coin tossing. The other is the probabilistic analysis of (randomized or deterministic) algorithms. The goal is to measure the expected performance of an algorithm. Basic knowledge and techniques developed from the probability theory will be introduced. Workload include problem solving homeworks and programming assignments.

CSCD 427. ADVANCED DATABASE MANAGEMENT SYSTEMS. 4 Credits.
Pre-requisites: CSCD 327 with a grade ≥2.5, advancement programming exam clearance.
This course focuses on current trends in database technologies. Topics may include secondary storage, index structures, query processing, query optimization, concurrency control, transaction management, distributed databases, data mining and information retrieval.

CSCD 429. DATA MINING. 4 Credits.
Pre-requisites: CSCD 320 with a grade ≥2.5, CSCD 327 with a grade ≥2.5, advancement programming exam clearance.
Data mining is the process of automatic discovery of patterns, changes, associations and anomalies in massive databases. This course will provide an introduction to the main topics in data mining and knowledge discovery, including: data preparation for knowledge discovery, frequent pattern and association mining, classification and cluster analysis.

CSCD 433. ADVANCED COMPUTER NETWORKS. 4 Credits.
Pre-requisites: CSCD 330 with a grade ≥2.5, advancement programming exam clearance.
This course will cover the design, implementation, analysis and evaluation of networks. Topics include protocol mechanisms, advanced network architecture, network algorithms, network control, network simulation and performance analysis. Programming assignments are required.

CSCD 434. NETWORK SECURITY. 4 Credits.
Pre-requisites: CSCD 330 with a grade ≥2.5, advancement programming exam clearance.
This course explores practical topics in network security. Topics include policy and mechanism; malicious code; intrusion detection, prevention, response; cryptographic and protocols for privacy and integrity. This course emphasizes the trade-offs among risks of misuse, cost of prevention and social issues. Concepts are implemented in programming assignments and comprehensive projects.

CSCD 435. PRINCIPLES OF PROGRAMMING LANGUAGE. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, advancement programming exam clearance.
This course is a study and comparison of programming languages by evolution, formal specifications, structures, features and application domains. Implementation of syntax and semantics and program run-time behavior for several languages will be considered. Programming projects required and presentations may be required.

CSCD 437. SECURE CODING. 4 Credits.
Pre-requisites: CSCD 300 with a grade ≥2.5, CSCD 240 with a grade ≥2.5, advancement programming exam clearance.
This course will introduce a variety of topics of concern to programmers when writing code. It will examine concepts that apply to programming "in the large" as well as specific aspects such as buffer overflow. C and C++ code will be examined. Written assignments, coding assignments and a team project are required.

CSCD 439. TOPICS IN COMPUTER SCIENCE. 2-5 Credits.
Prerequisites will be applied as required by the topic. This course is a variable topics course dealing with current trends in computer science. Possible topics include compiler design, advanced operating systems, computational complexity, computer graphics, software testing and verification, artificial intelligence, pattern recognition, computer simulation and modeling, graph algorithms.

CSCD 440. ADVANCED OPERATING SYSTEMS. 4 Credits.
Pre-requisites: CSCD 340 with a grade ≥2.5, advancement programming exam clearance.
This course covers a specific operating system involving installation, kernel configuration and kernel modification. The interaction between kernel space and user space is studied and the student designs, implements and tests programs communicating across that programming interface. Programming projects are required.

CSCD 443. DISTRIBUTED MULTIPROCESSING. 4 Credits.
Pre-requisites: CSCD 340 with a grade ≥2.5, advancement programming exam clearance.
This course explores parallel processing concepts and history, including the study and comparison of several multi-processing environments (such as Java threads, PVM and MPI) Programming projects will be required in the Unix environment, and the C and Java languages.

CSCD 445. GPU COMPUTING. 4 Credits.
Notes: may be stacked with CSCD 545.
Pre-requisites: CSCD 240 and CSCD 300 with a grade ≥2.5 and Advancement Programming Exam clearance.
Beyond its applications in Graphics, general-purpose graphics processing unit computing (GPGPU) utilizes a Graphics Processing Unit (GPU)—which typically used to perform computations exclusively for computer graphics—at present to parallelize computations traditionally performed by the CPU. GPGPU becomes more widely used in applications demanding for high performance.
CSCD 470. ADVANCED ARCHITECTURE AND ORGANIZATION. 4 Credits.
**Pre-requisites:** CSCD 260 with a grade ≥2.5, advancement programming exam clearance.

This course addresses computer processor design at the levels of the instruction set, the system architecture and logical gates. Knowledge of Boolean algebra and digital circuits are combined with a viewpoint of computers at the machine language level to build a complete understanding of how modern computer processors actually work, with some techniques and trade-offs that go into their design. The simulation of systems using a high-level programming language is also covered. Programming projects are required.

CSCD 461. EMBEDDED SYSTEMS. 4 Credits.
**Pre-requisites:** CSCD 260 with a grade ≥2.5 or CSCD 255 with a grade ≥2.5 and EENG 260 with a grade ≥2.0.

This course introduces embedded systems with emphasis on software development. Topics include surveys on digital systems design, software/hardware interface, communication protocols, interrupts service routine and applications programming on an embedded controller.

CSCD 462. EMBEDDED REAL-TIME CONTROL. 4 Credits.
**Pre-requisites:** EENG 160 with a grade ≥2.0, MATH 161 with a grade ≥2.0 and CSCD 240 with a grade ≥2.5 or CSCD 255 with a grade ≥2.5.

This course covers technologies typically found in embedded control systems, including basic hardware/software interfaces, multitasking, real-time scheduling and feedback control.

CSCD 467. PARALLEL AND CLOUD COMPUTING. 4 Credits.
**Pre-requisites:** CSCD 300 with a grade ≥2.5 and advancement programming exam.

This course explores up-to-date parallel platforms, such as Cluster computing and Cloud computing that use networked computers to store and process large datasets in parallel. Topics include synchronization techniques, high-performance server/service design, performance issues, distributed file systems and MapReduce framework, virtualization and VPN technology in the Cloud, Cloud scalability and availability and Cloud storage. Hands-on assignments and projects are required.

CSCD 470. 3D COMPUTER GRAPHICS PRINCIPLES. 4 Credits.
**Pre-requisites:** CSCD 300 with a grade ≥2.5, MATH 231 with a grade ≥2.0, advancement programming exam clearance.

This course introduces the basic theoretical concepts involved in 3D computer graphics. Concepts will be illustrated using 3D rendering software allowing students to understand the practical application of the theory. Programming projects will be required.

CSCD 471. ADVANCED 3D COMPUTER GRAPHICS. 4 Credits.
**Pre-requisites:** CSCD 470 with a grade ≥2.5, advancement programming exam clearance.

This course involves program implementation of 3D computer graphics theory elements from previous graphics courses using a commonly available cross platform 3D graphics application program interface. Programming assignments include implementation of topics from CSCD 470 such as generation of graphics primitives, the virtual camera, perspective projection, modeling and representation of three-dimensional objects and basic lighting. Additional topics include the theory and implementation of realistic object rendering using Phong and Gouraud shading techniques, texture mapping and other advanced rendering techniques such as the production of shadows and reflections and the use of advanced rendering techniques in 3D games. Programming projects are required.

CSCD 474. COMPUTER GAMES DEVELOPMENT. 4 Credits.
**Pre-requisites:** CSCD 300 with a grade ≥2.5, advancement programming exam clearance.

This course is an in-depth analysis of the source code of a commercial 3D game leading to a major modification of the code and related elements to produce a new 3D game. Topics may include techniques for modification of game graphics, game artificial intelligence and game physics, as well as exploration of external applications for model production, animation and skinning and game level production. Programming projects and game modifications are required.

CSCD 476. ADVANCED 3D MODELING. 4 Credits.
**Pre-requisites:** CSCD 110 with a grade ≥2.5, CSCD 416 with a grade ≥2.5.

This course involves compositing with complex animation software plug-ins. Topics include reassembling 3D animations in 2D compositing space, color depth, advanced 3D scripting and integration, 3D animations and live-action footage. Professional level 3D projects are required.

CSCD 480. INTELLIGENT SYSTEMS. 4 Credits.
**Pre-requisites:** CSCD 300 with a grade ≥2.5 and advancement programming exam.

Fundamental concepts and techniques of modeling, simulating, visualizing and analyzing complex real-world systems by using artificial intelligence, knowledge acquisition and representation, reasoning, planning, machine learning, expert systems, intelligent agents and multiagent architectures, and search strategies; emphasizes practical applications to modern smart and mobile devices.

CSCD 487. HUMAN COMPUTER INTERFACE. 4 Credits.
**Pre-requisites:** CSCD 300 with a grade ≥2.5 or permission of instructor.

This course will begin with a brief historical overview of human-computer user interfaces with an eye to identifying the key steps in their conceptual development. Students will read in the field of classical human factors, focusing on findings of a particular relevance to user interface design and operation. They will explore the domain of interaction design and testing and intellectual property protection as it relates to human-computer interfaces, investigating what constitutes (or does not constitute) a patentable method and how patent protections are pursued. Written projects and team projects are required.

CSCD 488. SENIOR PROJECT. 5 Credits.
**Pre-requisites:** CSCD 490 with a grade ≥2.5, advancement programming exam, CSCD 378 or CSCD 379, and advancement exam clearance.

Students will take CSCD 490 Senior Capstone the quarter following successful completion of Senior Project. Student teams apply computer science principles to client-sponsored projects. Based on requirements provided by the client, each team will use appropriate tools, digital systems, and management skills in support of project development.

CSCD 490. SENIOR CAPSTONE. 5 Credits.
**Pre-requisites:** CSCD 488 prior quarter.

Satisfies: senior capstone university graduation requirement.

This course is the second course of a two-quarter project sequence and must be taken the quarter following successful completion of the Senior Project course. During this course the client-specified project is completed using appropriate tools and digital systems development methodologies to additionally specify, design, implement, install and test a systems solution that meets the client’s needs. Milestone reports, including a final oral report and complete final project documentation (in printed and electronic form) are required.
CSCD 495. INTERNSHIP. 1-10 Credits.
Notes: graded Pass/Fail.
Pre-requisites: CSCD 300 a grade ≥2.5; permission of the instructor, department chair and college dean.

CSCD 496. EXPERIMENTAL COURSE. 1-5 Credits.

CSCD 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Selected topics to be arranged in consultation with the requesting organization.

CSCD 498. SEMINAR. 1-5 Credits.
Pre-requisites: permission of the instructor.

CSCD 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CSCD 500. COLLOQUIUM IN COMPUTER SCIENCE. 1 Credit.
Pre-requisites: graduate standing.
This course presents a speaker based seminar for graduate students intended as an introduction to research currently conducted by CS faculty and graduate students with some outside presenters from other institutions and corporations. Students will gain knowledge of current faculty research in order to familiarize them aid them with research in CS sub-disciplines and aid them in selecting a graduate advisor.

CSCD 501. ADVANCED ALGORITHMS. 5 Credits.
Pre-requisites: CSCD 320 and either MATH 301 or CSCD 310 or equivalent.
This course studies advanced data structures and skills for designing and analyzing nontrivial algorithms. The course will progress toward advanced topics based on the foundation of basic algorithm design and analysis skills such as divide-conquer and dynamic programming. The course will cover topics including approximate algorithms, randomized algorithms and statistical analysis, string algorithms, algorithms for network flow problems, various advanced data structures and the NP-completeness theory.

CSCD 505. CRYPTOGRAPHY. 4 Credits.
Pre-requisites: MATH 225 or MATH 301 or equivalent.
This course covers the general principles of modern cryptography, including symmetric cryptosystems, asymmetric cryptosystems, secure hash functions and cryptographic level randomness. Other topics may include historic cryptosystems and their cryptanalysis, information entropy, zero knowledge proofs, trusted computing architectures, and information theory as it relates to cryptography. Programming assignments will be required. Writing and class presentations may be required.

CSCD 506. RESEARCH METHODS IN COMPUTER SCIENCE. 5 Credits.
Pre-requisites: graduate or post baccalaureate standing.
This course explores research and research methods in the computer science discipline. Topics covered include literature review, hypothesis formation, quantitative methods, paper and thesis writing, and presentation skills. Students will also be exposed to research conducted by department faculty and graduate students as well as presenters from other institutions. Students will gain knowledge of current faculty research, which will aid them in choosing their research focus.

CSCD 523. PROBABILISTIC METHODS IN COMPUTER SCIENCE. 4 Credits.
Notes: may be stacked with CSCD 423.
Pre-requisites: CSCD 320 with a grade ≥2.5.
This course introduces the use of probability in computer science algorithm design and analysis. The course covers two subfields. One is the design of randomized algorithms, where decisions at some steps are determined by coin tossing. The other is the probabilistic analysis of (randomized or deterministic) algorithms. The goal is to measure the expected performance of an algorithm. Basic knowledge and techniques developed from the probability theory will be introduced. Workload include problem solving homeworks, programming assignments and a term project.

CSCD 524. ADVANCED SOFTWARE ENGINEERING. 5 Credits.
Pre-requisites: CSCD 350 a grade ≥2.5 or equivalent software development experience.
A variable content survey of fundamental and advanced topics in software engineering. The course includes the study of the evolving methods and techniques available to develop high quality, reliable and maintainable software with efficient allocation of organizational resources. Possible topics include system reliability and security, open source development, system architecture, components and system reuse. Individual research projects are required.

CSCD 527. MODERN DATABASE SYSTEMS. 5 Credits.
Pre-requisites: CSCD 327 or equivalent.
An in-depth study of relational DBMSs and other selected database topics. Possible topics include recovery, concurrency control, transaction management, distributed DB models and various NoSQL systems.

CSCD 533. COMPUTER NETWORKS. 4 Credits.
Pre-requisites: CSCD 330 or equivalent.
Advanced topics in computer networks is the primary focus of this course. Design and performance of networks are studied in depth. Some hardware concepts such as routers, switches and physical connection media are covered. Protocol analysis and design is covered using existing protocol common in today's networks. Performance of networks is also studied including TCP/IP protocols, Ipv6, possibly ATM or other circuit switched technologies. Programming assignments and hands-on labs will be expected.

CSCD 538. TOPICS IN COMPUTER HARDWARE. 4 Credits.
Pre-requisites: graduate standing in computer science or permission of the instructor.
A variable content course dealing with some aspect of computer hardware. Possible topics include network theory, VLSI design, control systems, digital systems design, switching and automata theory, computer-aided engineering.

CSCD 539. TOPICS IN COMPUTER SCIENCE. 4 Credits.
Pre-requisites: graduate standing in computer science or permission of the instructor.
A variable content course dealing with an area of computer science other than hardware. Possible topics include compiler design, advanced operating systems, computational complexity, computer graphics, software testing and verification, artificial intelligence, pattern recognition, computer architecture, simulation and modeling, graph algorithms.
CSCD 540. ADVANCED OPERATING SYSTEMS. 5 Credits.
Pre-requisites: CSCD 340 or equivalent.
The course covers synchronization in concurrent/distributed computing (which modern operating systems must support) and the implementation of virtual machine operating systems. Implementation includes file systems, memory management, paging, task switching, process management and basic operating system services. The virtual machine must be able to support various CPU time allocations schemes to simulate multiprocessor systems of different processing speeds.

CSCD 543. DISTRIBUTED MULTIPROCESSING ENVIRONMENTS. 4 Credits.
Pre-requisites: CSCD 340 or equivalent.
This course explores parallel processing concepts and history, including the study and comparison of several multi-processing environments (such as Java threads, PVM and MPI). Programming projects will be required in the Unix environment and the C and Java languages.

CSCD 544. TIME CRITICAL NETWORKING. 4 Credits.
Pre-requisites: CSCD 330 or equivalent.
This course studies multimedia networking concepts and history, including the study of current practices in multimedia networking technologies and protocols for multimedia signal transport. Selected contemporary multimedia networking application areas are studied as examples. Special Emphasis is placed on challenges to multimedia signal transport involving quality of service such as signal latency and jitter. Research projects are required.

CSCD 545. GPU COMPUTING. 4 Credits.
Notes: may be stacked with CSCD 445.
Pre-requisites: CSCD 240 and CSCD 300 with a grade ≥2.5 and Advancement Programming Exam clearance.
Beyond its applications in Graphics, General-Purpose Graphics Processing Unit computing (GPGPU) utilizes a Graphics Processing Unit (GPU)—which typically used to perform computations exclusively for computer graphics—at present to parallelize computations traditionally performed by the CPU. GPGPU becomes more widely used in applications demanding for high performance.

CSCD 567. PARALLEL AND CLOUD COMPUTING. 4 Credits.
Pre-requisites: CSCD 300 and Advancement Programming Exam clearance or equivalent.
This course studies the core technologies used to develop the essential components in modern distributed, parallel and Cloud systems using networked computers to store and process large datasets in parallel. Topics include synchronization techniques, high-performance server/service design, performance issues, MPI programming, distributed file systems and MapReduce framework, Virtualization and VPN technology in the Cloud, Cloud scalability and availability and data consistency in the Cloud. Graduate students are required to read research papers and implement the methodology on parallel platforms or in the Cloud.

CSCD 570. PHOTO-REALISTIC COMPUTER GRAPHICS. 4 Credits.
Pre-requisites: CSCD 471 or equivalent.
Theory and programming techniques of global illumination for photorealistic rendering in computer graphics. Included topics: basic of ray tracing, advanced ray tracing topics including stochastic ray tracing, incorporation of other global illumination techniques including radiosity and photon tracing. Requires programming assignments.

CSCD 575. COMPUTER SYSTEMS DESIGN. 4 Credits.
A survey of computer system architecture including levels of machine description, instruction sets, interrupt handling, memory hierarchies, I/O subsystems, and buses.

CSCD 580. INTELLIGENT SYSTEMS. 4 Credits.
Fundamental concepts and techniques of modeling, simulating, visualizing, and analyzing complex real-world quantitative and qualitative systems of systems including artificial intelligence, knowledge acquisition and representation, reasoning, planning, machine learning, expert systems, intelligent agents and multi-agent systems, and search strategies; emphasizes practical applications to contemporary smart and mobile devices. A research project is required.

CSCD 587. HUMAN-COMPUTER INTERFACE. 4 Credits.
Pre-requisites: CSCD 210 or CSCD 305.
This course will begin with a brief overview of human-computer user interfaces historically, with an eye to identifying the key steps in their development conceptually. Students will read in the field of classical human factors, focusing on finding a particular relevance to user interface design and operation. Exploration of the domain of interaction design and testing and intellectual property protection as it relates to human-computer interfaces, investigating what constitutes (or does not constitute) a patentable method, and how patent protections are pursued will be discussed. Written projects and team projects are required.

CSCD 595. PROFESSIONAL INTERNSHIP. 2-16 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Professional Internship.

CSCD 596. EXPERIMENTAL COURSE. 2-5 Credits.

CSCD 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

CSCD 598. SEMINAR. 1-5 Credits.

CSCD 599. DIRECTED STUDY. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

CSCD 600. THESIS. 1-16 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
A research thesis under the direction of a graduate committee.

CSCD 601. RESEARCH REPORT. 1-16 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
A research study in lieu of a bound thesis conducted as partial fulfillment of a master's degree under the direction of a graduate committee.

CSCD 602. INDUSTRY PROJECT. 1-16 Credits.
Notes: graded Pass/No Credit.
Development and documentation of applied computer science project in an industry setting.

CSCD 695. DEPARTMENTAL INTERNSHIP. 1-16 Credits.
Notes: graded Pass/No Credit.
Professional Internship.
Core - Social and Behavioral Science (CSBS)

The College of Social & Behavior Sciences and Social Work offers a series of college-wide foundation courses in social science theory, statistics, computer-aided statistics, quantitative research methods and qualitative research methods. These classes may be required or listed as options in each of the social and behavioral science majors. Check the foundation course requirements in the specific major.

CSBS 110. PRACTICUM IN COMMUNITY INVOLVEMENT. 2-5 Credits.
This course provides students with an intensive practicum experience working with a local or regional agency.

CSBS 196. EXPERIMENTAL COURSE. 1-5 Credits.

CSBS 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop

CSBS 200. INTRODUCTION TO LEADERSHIP. 3 Credits.
An introduction to basic leadership skills, this course will cover models in a variety of areas such as communication, decision making, problem solving, time management, conflict resolution and ethics.

CSBS 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

CSBS 310. FOUNDATIONS OF SOCIAL AND BEHAVIORAL SCIENCES THEORY. 5 Credits.
Pre-requisites: completion of the general education core course requirements in the social sciences as specified in this catalog or permission of the instructor.

This course is intended to expose the philosophic choices and historical constraints that underlie all of the social and behavior sciences. In terms as simple as possible, we explore foundational alternatives (which may include idealism vs. materialism, individualism vs. holism, structure vs. agency, value neutrality vs. social critique) and the impact of history on the social and behavioral science. By emphasizing the controversiality and diversity within the disciplines, and the social contexts that shape them, we encourage students to discover sharply critical perspectives on the social and behavioral theories that claim to tell us how the world works.

CSBS 320. INTRODUCTORY STATISTICS FOR THE SOCIAL SCIENCES. 5 Credits.
Pre-requisites: MTHD 104 or mathematics clearance by test. MATH 107 recommended.

Introduces the theory and procedures underlying the use of statistics in the social sciences. During the first half of the class, methods are presented for organizing distributions, summarizing their key properties, conveying the relative standing of individual scores in distributions, and measuring relations between pairs of variables. Commonly used procedures for testing hypotheses in the social sciences are presented in the second half of the class.

CSBS 321. COMPUTER AIDED DATA ANALYSIS. 4 Credits.
Pre-requisites: CSBS 320 or equivalent, CPLA 120 or equivalent.

Introduces the use of SPSS running on personal computers for analyzing data in the social sciences. Topics include basic tasks such as entering and transforming data. Procedures covered include obtaining summary statistics of single variables, graphing variables organizing multivariate data, and testing hypotheses with t-tests, the analysis of variance, regression, and selected nonparametric tests. Fundamentals of factor analysis and discriminant function analysis are introduced with guidelines for interpreting output.

CSBS 396. EXPERIMENTAL COURSE. 1-5 Credits.

CSBS 399. DIRECTED STUDY. 1-5 Credits.
Directed Study

CSBS 494. LEADERSHIP PORTFOLIO. 2 Credits.
Prerequisite: permission of certificate advisor. Supervised by the certificate advisor, students will compile an assessment portfolio of significant assignments completed during the certificate program. In addition, students will enhance the portfolio by completing various exercises, including the development of a formal statement regarding their leadership philosophy. These statements will integrate various concepts and theories surveyed and critiqued during the certificate program. Students are required to give an oral presentation of their statements to an audience composed of invited peers, faculty, and Certificate Advisory Board members.

CSBS 496. EXPERIMENTAL COURSE. 1-5 Credits.

CSBS 498. SEMINAR. 1-5 Credits.

Creative Writing (CRWR)

CRWR 210. INTRODUCTION TO CREATIVE WRITING. 5 Credits.
Pre-requisites: ENGL 101 or ENGL 201.

This course introduces students to the process, techniques and forms of creative writing including poetry, fiction and nonfiction.

CRWR 296. EXPERIMENTAL COURSE. 1-5 Credits.

CRWR 311. FORM AND THEORY OF FICTION. 5 Credits.
Pre-requisites: CRWR 210.

Style and the techniques of fiction, including a delineation of the development of major technical trends in fiction.

CRWR 312. FORM AND THEORY OF POETRY. 5 Credits.
Pre-requisites: CRWR 210.

An intensive study of the history and current use of prosody and poetics and the application of traditional and innovative theories of contemporary poetry.

CRWR 313. FORM AND THEORY OF LITERARY NONFICTION. 5 Credits.
Pre-requisites: CRWR 210.

Students will study the nature of literary nonfiction. Contemporary subgenres to be studied may include nature writing, travel writing, science writing, the memoir, literary journalism and others.

CRWR 314. ADVANCED CREATIVE WRITING—POETRY. 5 Credits.
Pre-requisites: CRWR 210 with a minimum grade ≥3.0 or permission of instructor.

This course is an intensive study in writing poetry, including the reading of contemporary and modern poetry to further students’ study of craft. Extensive poetry and craft reading as well as completing a poetry portfolio is required.
CRWR 315. ADVANCED CREATIVE WRITING–SHORT STORY. 5 Credits.
Pre-requisites: CRWR 210 with a minimum grade ≥3.0 or permission of instructor.
This course is an intensive study in writing literary short stories, including the readings on craft and contemporary modern fiction. Students will write two-three short stories which will be critiqued by instructor and peers.

CRWR 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CRWR 398. SEMINAR. 1-5 Credits.

CRWR 414. LITERARY EDITING AND DESIGN. 5 Credits.
Cross listed: ENGL 414.
Pre-requisites: ENGL 270, ENGL 271, CRWR 210.
The history of literary magazine publishing in America since 1950. Also typography, layout, graphics, and editorial vision. Students will be asked to examine and discuss various influential literary magazines of the past as well as the present and to produce a mock-up of their own literary magazine.

CRWR 415. LITERARY EDITING AND DESIGN. 1-5 Credits.
Notes: may be repeated up to six quarters.
Pre-requisites: CRWR 417.
Reading and critiquing manuscript submissions to Willow Springs, EWU nationally recognized literary journal.

CRWR 416. WILLOW SPRINGS EDITIONS INTERNSHIP. 1-5 Credits.
Pre-requisites: CRWR 417.
Students market, distribute, promote, sell, and ship the titles already published by Willow Springs Editions, and advertise, organize and manage the Spokane Prize for Short Fiction competition.

CRWR 417. CREATIVE WRITING WORKSHOP. 5 Credits.
Pre-requisites: CRWR 210.
Workshop in various genres, e.g., fiction, poetry, creative nonfiction, drama, script writing or translation. Different genres and subjects will be indicated in the quarterly course listings and on the student’s permanent record.

CRWR 469. LITERATURE OF THE PACIFIC NORTHWEST. 5 Credits.
Cross listed: ENGL 469.
Pre-requisites: ENGL 343 or ENGL 344.
This course is a survey of Northwestern literature from 1800 to the present time, including representative exploration journals as well as more recent works by such writers as Richard Hugo, James Welch, Carolyn Kizer and Ursula LeGuin. Addresses questions of geography and regional culture.

CRWR 491. CREATIVE WRITING SENIOR THESIS. 5 Credits.
Pre-requisites: CRWR 311 or CRWR 312, 2 sections of CRWR 417.
Satisfies: senior capstone university graduation requirement.
A class for senior creative writing majors. Students will revise poetry, fiction and essays from previous creative writing classes, culminating in a final portfolio of polished literary work. A third of the class will be workshops, a third discussion of assigned literary text to supplement the writing of the thesis and a third discussion of career issues (publishing, employment, graduate school).

CRWR 495. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Internship.

CRWR 496. EXPERIMENTAL COURSE. 1-5 Credits.

CRWR 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CRWR 498. SEMINAR. 5 Credits.
Cross listed: if topic is literature, this course includes the prerequisite and may be cross-listed with ENGL 498.
Notes: may be repeated for credit; the topic covered will be listed on the student’s permanent record.
Pre-requisites: grades ≥2.5 or better in ENGL 270 and ENGL 271 (if topic is literature).
Special topics in creative writing or literature.

CRWR 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the director of the Creative Writing program, instructor, department chair and college dean.
Independent study under faculty direction, adapted to individual needs of the students.

CRWR 514. LITERARY EDITING AND DESIGN. 5 Credits.
Pre-requisites: graduate standing.
The class will study the history of literary magazine publishing in America since 1950. It will also study typography, layout, graphics, and editorial vision. Students will be asked to examine and discuss various influential literary magazines of the past as well as the present and to produce a mock-up of their own literary magazine.

CRWR 515. INTERNSHIP LITERARY EDITING AND DESIGN. 1-5 Credits.
Pre-requisites: graduate standing.
A practicum in literary production. The course offers hands-on training in connection with the literary magazine Willow Springs. Individually assigned projects typically include reading and editing submissions, proofreading, copy editing, layout, production, and marketing.

CRWR 517. GRADUATE WRITING WORKSHOP: FICTION, POETRY, LITERARY NONFICTION, DRAMA, SCRIPTWRITING OR TRANSLATION. 5 Credits.
Pre-requisites: MFA students; or permission of instructor.
Classroom discussion of student writing, concentrating on editing and revision with a view to attaining publishable quality.

CRWR 539. SPECIAL TOPICS. 1-5 Credits.

CRWR 569. LITERATURE OF THE PACIFIC NORTHWEST. 5 Credits.
A survey of Northwestern literature from 1800 to the present time, including representative exploration journals as well as more recent work by such writers as Hugo, Welch, Kizer, Bass, and LeGuin. The course also addresses questions of geography, economics, and regional culture as they relate to the literature. (Cross-listed ENGL 569)

CRWR 583. FICTION I–THE NOVEL. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor.
A study beginning with the early narratives, such as religious and mythic narratives, epics and folk tales, moving through such defining works as those by Chaucer, Boccaccio, Cervantes, and Grimmeleshauen. The course ends with examination of eighteenth through mid-nineteenth century works by such authors as Stern, Defoe, the Brontes, Austen, Dickens, Stendahl, Eliot, Hawthorne, and Melville.

CRWR 584. FICTION II–THE SHORT FORM. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor.
A study beginning with the early narratives, such as religious and mythic narratives, epics and folk tales, moving through such defining works as those by Chaucer, Boccaccio, Cervantes, and Grimmeleshauen. The course ends with examination of eighteenth through mid-nineteenth century works by such authors as Stern, Defoe, the Brontes, Austen, Dickens, Stendahl, Eliot, Hawthorne, and Melville.
CRWR 585. FICTION III—THE CONTEMPORARIES. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. A survey of literature of the last 30 to 40 years with an emphasis on the worldwide explosion of printed fiction in several forms - the short story, the integrated collection, novel, and novella. The course might focus on a problem or on several writers. Examples of writers to be considered are Marquez, Morrison, Achebe, Barth, J. Berger, Welch, Munro, Mishima, and Pynchon.

CRWR 586. LITERARY NONFICTION I—ANCIENT ROOTS THROUGH THE 19TH CENTURY. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. Intensive study of the nature and development of nonfiction, beginning with ancient Greek, Roman, Chinese, and Japanese writings and the Bible, moving to the nonfiction of Continental writers such as Kempe, Montaigne, Browne, Swift, Johnson and Addison, and Lamb, and on to American writers such as Emerson, Thoreau, Twain, and Muir. Forms such as oral traditions of indigenous peoples, exploration accounts, slave narratives, captive narratives, biography, autobiogaphy, meditation, diaries/journals, and the essay may be considered.

CRWR 587. LITERARY NONFICTION II—20TH CENTURY AND BEYOND. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. Intensive study of the nature and variety of modern and contemporary literary nonfiction, including such established writers as Woolf, Orwell, White, Didion, Mailer, Tom Wolfe, Tobias Wolff, Kingston, Momaday, McPhee, Baldwin, Walker, Kincaid, Dillard, Eiseley, Sanders, Rodriguez and Haines, as well as lesser-known contemporary writers. Forms such as memoir, essay, short nonfiction, literary journalism and the nonfiction novel may be considered, as well as effects of the works on the world.

CRWR 588. LITERARY NONFICTION III—SELECTED TOPICS. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. Advanced, close study of selected topics in creative nonfiction, such as nature writing, travel writing, oral history, memoir, diaries/journals, the personal essay, short nonfiction, radio commentary, literary journalism, biography, nonfiction translation, research methods, ethical questions, cross-cultural writing, political writing, historical writing, and science writing. More than one topic will be considered during the course.

CRWR 589. POETRY I—BACKGROUND AND THEORY. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. A study of some early poetry important to the development of the art, including Sappho, Catullus, Horace, the poets of the Tang Dynasty, and the English Metaphysicals. It will also include discussions of traditional forms and prosody.

CRWR 590. POETRY II—THE MODERNS AND MODERNISM. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. The course will begin with the study of Dickinson and Whitman and move through the High Moderns to Robert Lowell also include discussion of Symbolism, the Spanish poets, and the French Surrealists, and other non-English speaking poets of the period.

CRWR 592. POETRY III—CONTEMPORARY WORLD POETRY AND POETICS. 5 Credits.
Pre-requisites: MFA or English MA students or permission of instructor. An intensive study of selected authors and literary developments, both national and international, since 1960.
CRIM 340. ETHICS IN CRIMINAL JUSTICE. 5 Credits.
In this course, we will explore major ethical theories with an emphasis on their application to components of the criminal justice system. We will analyze current issues and ethical dilemmas that criminal justice professionals deal with. We will examine the complex process of moral and ethical decision making in the criminal justice system.

CRIM 360. WOMEN IN PRISON. 5 Credits.
Cross listed: WMST 360.
In this course, we examine the socio-structural relationships between women's lives and women's crimes and explore how race, class, and gender assumptions shape the experiences of female correctional officers and female inmates. In addition, we analyze how the prison rules and regulations that girls and women have to abide by are deeply gendered. Since the 1980s, the number of women and girls incarcerated has increased drastically. Yet, we know very little about female criminality and women's lives inside prison.

CRIM 382. CRIMINAL JUSTICE ORGANIZATION AND ADMINISTRATION. 5 Credits.
Basic organization and management of criminal justice agencies. Discusses line, personnel, and auxiliary functions.

CRIM 398. PROFESSIONAL DEV SEMINAR. 5 Credits.
Covers values, ethics and personal development.

CRIM 399. INDIVIDUAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual study in criminal justice. Topics are mutually agreed upon by the instructor and student.

CRIM 404. FORENSIC IDENTIFICATION. 4 Credits.
Notes: limited to 15 students.
This course is an advanced laboratory course in forensic facial reconstruction, forensic osteology and computer applications to forensic identification.

CRIM 416. COMPARATIVE CRIMINAL JUSTICE SYSTEMS. 5 Credits.
A comparative approach to understanding the different criminal justice systems found throughout the world.

CRIM 420. PEACEMAKING CRIMINOLOGY. 5 Credits.
Pre-requisites: CRIM 300.
This course provides an overview of peacemaking within communities and the justice system. Topics include leaders and tactics, and the historical and philosophical foundations of peace movements.

CRIM 421. RESTORATIVE JUSTICE. 5 Credits.
Pre-requisites: CRIM 300.
This course provides an overview of restorative justice within communities and the justice system. Topics include the need for restorative justice practices with an emphasis on the causes of deterrence, new trends in community movements and justice procedures.

CRIM 460. PENOLOGY. 5 Credits.
Notes: Acceptable background security check. Course fee. CJ majors have priority.
A study of the contemporary practice of penology in the western world with special attention to the United States and Washington state. Lecture, laboratory and required field trips to Northwest Custodial Institutions.

CRIM 468. POLICE SYSTEMS AND PRACTICES. 5 Credits.
Pre-requisites: CRIM 300 or permission of the instructor.
This course examines the profession of a police officer. Topics include criminal investigations, specialized operations, ethics, liability, and the process, organization and management of policing in the United States.

CRIM 485. CORRECTIONAL COUNSELING: GROUP METHODS. 5 Credits.
Examines group methods used with criminal offenders, both juvenile and adult. Includes treatment programs, evaluation and therapeutic environments.

CRIM 490. SENIOR CAPSTONE. 5 Credits.
Pre-requisites: senior standing; must be taken prior to internship.
Satisfies: senior capstone university graduation requirement.
This course examines the relationship between the major subsystems of the criminal justice system, police, courts, corrections, and juvenile justice. Each of these major components address issues of crime in society with the same constituents, but from a different perspective. Examination of issues that each component has in common and the manner in which they are differently addressed is the focus of this course. Criminal Justice students will gain an appreciation for the eclectic nature of the profession through in-depth analysis of current issues and designing a resolution mechanism. The characterization of a criminal justice system is discussed from the perspective of individual mission of each element of the system to identify the presence or absence of commonality except for constituency. The distinctive division of labor between corrections, police administration and the courts are described in effort to identify the decision-making processes to further amplify their interdependence and interrelatedness. Through examination of dilemmas faced by the system students will develop an appreciation for and understanding of the system from the macro perspective.

CRIM 495. INTERNSHIP. 6-12 Credits.
Pre-requisites: 2.5 GPA, permission of internship instructor and CRIM 490.
The intern earns credits through participation in a full-time work experience. The length of time is determined by the amount of credit. Normally it will be 10 weeks. Requirements include an on site visit, detailed written report and additional assignments. Internships are limited to the state of Washington and some selected Idaho and Oregon locations. Applications and approval must be obtained prior to the internship experience. Credit for unapproved internship or life experience is not granted.

CRIM 496. EXPERIMENTAL COURSE. 1-5 Credits.

CRIM 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

CRIM 498. CRIMINAL JUSTICE SEMINAR. 5 Credits.

CRIM 499. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
For individual/independent study in criminal justice. Topics are mutually agreed upon by the instructor and the student.

Decision Science (DSCI)

DSCI 245. DATA ANALYSIS FOR BUSINESS. 4 Credits.
Pre-requisites: completion of CPLA 100 and CPLA 120 or equivalent and one of the following: MATH 142, MATH 161 or MATH 200. An introduction to decision making in the business environment using statistical and data analysis procedures. Computer software is used extensively. Written communication skills are emphasized as a means to incorporate analysis results into the decision making process. Topical coverage includes discrete and continuous probability distributions, sampling distributions, estimation and hypothesis testing.
DSCI 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

DSCI 299. DIRECTED STUDY. 1-15 Credits.

DSCI 346. ADVANCED DATA ANALYSIS FOR BUSINESS. 4 Credits.
Pre-requisites: completion of CPLA 100 and CPLA 101 or CPLA 120 (or equivalent) and DSCI 245 (or equivalent) and one of the following: MATH 142, MATH 161 or MATH 200.
This course offers and in-depth study of decision making in the business environment using statistical and data analysis procedures. Statistical methods used in decision making include chi-square tests, analysis of variance, correlation, simple and multiple regression, time series analysis, and forecasting. Computer software is used extensively for both analysis and presentation. Case studies or projects are used to integrate statistical methods with problem solving and communication skills.

DSCI 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

DSCI 445. INTRODUCTION TO BUSINESS ANALYTICS. 4 Credits.
Pre-requisites: DSCI 346 or equivalent.
Business analytics is a hybrid of information systems, applied statistics, management science, data analysis, operations research, consumer behavior, risk management and decision support. The focus of this particular course is on the analysis of data to develop spreadsheet decision models in a business environment. Topics may include linear programming, network modeling, goal programming, nonlinear programming, regression, data mining, forecasting, simulation, queuing theory and decision analysis.

DSCI 446. BUSINESS FORECASTING. 4 Credits.
Pre-requisites: DSCI 346 or equivalent or permission of the instructor. Integrates several forecasting models with applications to managerial techniques. Topics include regression, multiple regression, time series analysis, autocorrelation, econometric models, exponential smoothing, autoregressive models, adaptive filtering, Box Jenkins methods, and survey techniques. The computer is employed to develop meaningful forecasts for management.

DSCI 447. DESIGN OF EXPERIMENTS. 4 Credits.
Pre-requisites: DSCI 346 or equivalent or permission of the instructor. An in-depth study of quantitative business analysis techniques in a variety of organizational environments. Emphasizes the use of the computer and a discussion of quality in the organizational setting.

DSCI 448. BUSINESS SIMULATION. 4 Credits.
Pre-requisites: DSCI 346 or equivalent or permission of the instructor. An examination of probabilistic and probabilistic models in decision science, with emphasis on discrete event simulation.

DSCI 449. MULTIVARIATE DATA ANALYSIS. 4 Credits.
Pre-requisites: DSCI 346 or equivalent. Multivariate data analysis methods are used in fields such as business, engineering, education, data mining and many others. This course examines the concepts and principles of the various statistical methods used in the analysis of multiple simultaneous measurements on the subjects under investigation. Software is heavily used to support the studies in this course.

DSCI 450. DATA VISUALIZATION. 4 Credits.
Pre-requisites: DSCI 346 or equivalent. Data visualization helps people understand the information within data by placing it in a visual context. As statistical results are often communicated poorly in the media, in scientific journals and in business, this course examines methods used in the presentation of these results to non-statistically oriented audiences. A variety of software packages are used to develop appropriate data visualizations. Non-technical writing and presentation skills are emphasized.

DSCI 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.

DSCI 498. SEMINAR. 1-15 Credits.

DSCI 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Dental Hygiene (DNHY)

Please note: Semester courses include an "S" with the number.

DNHY 300S. HEAD AND NECK ANATOMY. 2 Credits.
Pre-requisites: admission to DNHY Program. A detailed study of head and neck anatomy, including bones, musculature, blood, lymphatic and nerve supply.

DNHY 301S. DENTAL ANATOMY. 2 Credits.
Pre-requisites: admission to DNHY Program. The course is a study of tooth anatomy, terminology, morphology and eruption. The following topics are covered: eruption, physiologic tooth form, collective tooth morphology, dental anatomy nomenclature and morphology, root anatomy, wax carvings, and specific anatomical features of selected permanent and primary teeth.

DNHY 302S. HISTOLOGY AND EMBRYOLOGY. 2 Credits.
Pre-requisites: admission to DNHY Program. A detailed study of oral histology and embryology focusing on the development of the face and oral cavity, along with microscopic anatomy of the oral cavity.

DNHY 310S. RADIOLOGY. 3 Credits.
Pre-requisites: admission to DNHY Program. Clinical and physical principles of x-ray production, hazards and safety procedures, with an orientation to oral anatomy and completion of acceptable full-mouth surveys, panoramic, occlusal, periapical, and bitewing radiographs on dental clients of all ages.

DNHY 320S. PHARMACOLOGY. 2 Credits.
Pre-requisites: admission to DNHY Program. This course focuses on the principles of pharmacological and therapeutic action of drugs and provides the student necessary knowledge to assess the medical conditions, adverse side effects, and drug interactions that may interfere with the management and dental treatment of an individual.

DNHY 321S. PERIODONTOLOGY I. 2 Credits.
Pre-requisites: admission to DNHY Program. A detailed study of the various periodontal diseases, with emphasis on histological and clinical recognition as well as treatment of the diseases.

DNHY 330S. PRE-CLINIC. 5 Credits.
Pre-requisites: admission to DNHY Program. This course introduces the basic principles for clinical dental hygiene treatment using the dental hygiene process of care. Focus is on the integration of didactic and clinical skills.
DNHY 341S. MANAGEMENT OF MEDICALLY COMPROMISED. 3 Credits.
Pre-requisites: admission to DNHY Program.
This course covers medical diseases and conditions with emphasis on providing comprehensive client care and management of the medically compromised patients who elect to or require dental care for optimal health and function.

DNHY 350S. CLINIC I. 5 Credits.
Pre-requisites: DNHY 330S.
This is the first course in supervised experience in clinical procedures and builds upon pre-clinical learning with emphasis on refining basic skills, acquiring new skills, and using the dental hygiene process of care to provide supervised client care.

DNHY 360S. DISEASE PREVENTION STRATEGIES. 2 Credits.
Pre-requisites: admission to DNHY Program.
This course introduces current theories, knowledge, and evidence-based practices of oral health education, nutrition and disease prevention.

DNHY 380S. RESTORATIVE DENTISTRY I. 5 Credits.
Pre-requisites: admission to DNHY Program.
This comprehensive lecture and laboratory course provides the dental hygiene student an opportunity to acquire knowledge and skills associated with dental materials and restorative expanded functions specifically the selection, manipulation and placement of dental materials.

DNHY 421S. PAIN MANAGEMENT. 3 Credits.
Pre-requisites: admission to DNHY Program.
Lecture/laboratory experiences provide the student an understanding of the history, theory and use of nitrous oxide sedation and local anesthetic agents. Pharmacology, emergency prevention and management, equipment safety, client management, safe administration, client comfort and student-operator decision making are emphasized.

DNHY 430S. GENERAL AND ORAL PATHOLOGY. 2 Credits.
Pre-requisites: admission to DNHY Program.
A histopathological study of oral lesions, pathogenic conditions of significance to dentistry and principles of general pathology. Topics include: basic principles of the disease process, overview of systems pathology, cell and tissue responses in inflammation, immunology, cell injury, cell adaptation, wound healing and neoplasia.

DNHY 441S. SPECIAL POPULATIONS. 1 Credit.
Pre-requisites: admission to DNHY Program.
This course provides students with specialized knowledge of the physical, mental, medical, social, and dental needs of individuals with a developmental or acquired condition. Students work collaboratively to examine issues including access to care and communication related to special populations across the lifespan.

DNHY 442S. PERIODONTOLOGY II. 1 Credit.
Pre-requisites: DNHY 321S.
A continued study of the recognition and treatment of periodontal diseases, with an emphasis on surgical components and advanced periodontal treatments, related to dental hygiene practice.

DNHY 446S. ADVANCED PERIODONTOLOGY. 1 Credit.
Pre-requisites: admission to DNHY Program.
This course focuses on advanced periodontal procedures that the dental hygienist may see or perform in a periodontal office.

DNHY 450S. CLINIC II. 5 Credits.
Pre-requisites: DNHY 330S.
This second course of supervised experience in clinical procedures builds upon previous learning with emphasis on integrating basic skills, acquiring advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

DNHY 451S. CLINIC III. 5 Credits.
Pre-requisites: DNHY 450S.
This third course of supervised experience in clinical procedures builds upon previous learning with emphasis on refining basic skills, integrating advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

DNHY 452S. CLINIC IV. 5 Credits.
Pre-requisites: DNHY 450S and DNHY 451S.
This fourth course of supervised experience in clinical procedures continues to build upon previous learning with emphasis on mastering basic skills, integrating advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

DNHY 454S. STRATEGIES IN RISK AND PRACTICE MANAGEMENT. 2 Credits.
Pre-requisites: admission to DNHY Program.
This course focuses on development of skills to obtain a dental hygiene position, interview styles, setting up a dental practice and identification of potential risks in the delivery of oral care.

DNHY 460S. DENTAL PUBLIC HEALTH. 2 Credits.
Pre-requisites: admission to DNHY program.
A comprehensive introduction to public health practices including application of the principles, terminology and techniques of community dental health through serving the needs of the community in various settings. First in a two-course series, students complete the assessment and planning phases in developing a community health program.

DNHY 461S. EXPERIENCES IN DENTAL PUBLIC HEALTH. 1 Credit.
Pre-requisites: DNHY 460S.
This second course in a two-semester series in dental public health further develops the concepts of dental public health and public health experiences. Students continue public health experience in various community settings and complete implementation and evaluation phases of a community health program. Outcomes are disseminated through presentation at a research venue. Students engage in the public health arena in developing a virtual oral health coalition.

DNHY 467S. CAREER STRATEGIES. 1 Credit.
Pre-requisites: acceptance to the BSDH degree completion program.
Students explore alternate career paths and essential skills needed to create a professional development plan related to a non-clinical dental hygiene practice.

DNHY 469S. APPLIED STATISTICS AND EVIDENCE-BASED DECISION MAKING FOR THE HEALTH SCIENCES. 4 Credits.
Pre-requisites: MTHD 104 or MTHD 106 or equivalent logic course approved by the department.
Integration of applied statistics, critical appraisal of research, clinical expertise and client values are examined to formulate evidence-based decisions in providing effective healthcare.
DNHY 470S. RESEARCH. 2 Credits.
This course focuses on the basic principles of research and the facilitation of the development of analytical skills for evaluation of professional research. Design of a professional research project relevant to a PICO question is conducted with dissemination via presentation at a regional or national venue.

DNHY 471S. PRINCIPLES OF RESEARCH AND SCIENTIFIC WRITING. 4 Credits.
Pre-requisites: acceptance to the BSDH degree completion program.
Basic principles of research and the facilitation of the development of analytical skills for evaluation of professional research culminating in the writing of a scientific research report.

DNHY 475S. CLINICAL EDUCATION STRATEGIES. 1 Credit.
Pre-requisites: admission to DNHY program.
This course focuses on providing clinical teaching methodology, learning styles and teaching philosophy to a novice educator. Students are assigned teaching opportunities under the direction of the course instructor.

DNHY 477S. LEADERSHIP AND PROFESSIONAL DEVELOPMENT. 1 Credit.
Pre-requisites: admission to DNHY program.
This course focuses on the development of leadership skills and personal attributes needed to fulfill the professional roles of the dental hygienist.

DNHY 480S. RESTORATIVE DENTISTRY II. 3 Credits.
Pre-requisites: DNHY 380S.
This second course of a three-semester sequence in clinical restorative dental hygiene is comprised of lectures, restorative clinic and laboratory experiences designed to facilitate the student’s knowledge of various restorative materials, clinical procedures, and development of restorative manipulative skills.

DNHY 481S. RESTORATIVE DENTISTRY III. 3 Credits.
Pre-requisites: DNHY 480S.
This is the third semester course of a three-semester sequence in clinical restorative practice. The course is comprised of lectures, restorative clinics, and laboratory experiences, which are designed to facilitate the student’s knowledge of various restorative materials and clinical procedures as well as the development of restorative manipulative skills.

DNHY 482S. ADVANCED RESTORATIVE. 1 Credit.
Pre-requisites: DNHY 380S, DNHY 480S, DNHY 481S.
This course focuses on the role of the restorative dental hygienist in a variety of practice settings.

DNHY 484S. PRINCIPLES OF ADVOCACY AND ETHICS. 2 Credits.
Pre-requisites: admission to DNHY program.
This course focuses on the student’s exposure to the ethical and legal principles guiding the decision-making and the practice of dental hygiene and their role as a leader in advocacy for the dental hygiene profession.

DNHY 485S. ORAL HEALTH PROMOTION. 3 Credits.
Pre-requisites: acceptance to the BSDH Degree completion program.
This course focuses on current topics related to oral health affecting changes in global populations.

DNHY 486S. CONTEMPORARY ISSUES IN DENTAL HYGIENE. 3 Credits.
Pre-requisites: acceptance to the BSDH Degree completion program.
A seminar on various global roles of the dental hygienist, innovations in technology, best practices, science and policy related to the dental hygiene process of care.

DNHY 487S. PRINCIPLES AND POLICIES OF ORAL HEALTHCARE MANAGEMENT. 3 Credits.
Pre-requisites: acceptance to the BSDH degree completion program. Management and policy creation for healthcare programs and businesses, specifically oral healthcare are discussed in this course.

DNHY 488S. RELATIONSHIP, ETHICS AND COMMUNICATION IN HEALTHCARE. 3 Credits.
Pre-requisites: acceptance to the Online BSDH Degree completion program.
Overarching themes of cultural diversity and global perspectives are employed in the application of theories and concepts of relationship building, ethics and communication for the healthcare provider.

DNHY 489S. PRINCIPLES OF DENTAL PUBLIC HEALTH. 3 Credits.
Pre-requisites: acceptance to the Online BSDH Degree completion program.
This course provides an overview of basic public health concepts including epidemiology, policy, cost, well-being, access and global health focusing on the relationship of oral public health to general public health.

DNHY 490S. DENTAL HYGIENE CAPSTONE. 4 Credits.
Pre-requisites: acceptance to the BSDH degree completion program.
Satisfies: senior capstone university graduation requirement.
This course incorporates the major learning themes of the dental hygiene degree completion curriculum resulting in a student-generated culminating capstone project/essay.

DNHY 491S. FOUNDATIONS OF DENTAL HYGIENE. 5 Credits.
Pre-requisites: acceptance to the BSDH degree completion program.
A foundation course providing fundamental theories, teaching strategies and applications in education and leadership.

DNHY 492S. EDUCATION/HEALTH PROMOTION PRACTICUM. 3 Credits.
Pre-requisites: DNHY 491S.
A practicum experience in didactic, clinical or laboratory instruction integrating leadership, professionalism, ethics, educational theories and teaching strategies, with a focus on assessment and evaluation.

DNHY 494S. MYTHOLOGY, FOLKLORE AND HEALTHCARE. 4 Credits.
Pre-requisites: ENGL 201 or DNHY 470S.
A course offering historical and diverse perspectives on health based on folklore and mythology.

DNHY 499S. INDEPENDENT STUDY. 1-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

DNHY 501S. ADVANCED DENTAL HYGIENE PRACTICE WITH LAB. 1 Credit.
Pre-requisites: admission to the DNHY graduate program.
This course focuses on the dental hygiene process of care related to advanced preventive and therapeutic interventions with diverse population groups, technology and outcomes. Provision of advanced dental hygiene care in a clinical setting will be a portion of this course.

DNHY 505S. HEALTHCARE LEADERSHIP. 3 Credits.
Focusing on healthcare providers, this course provides skill building in the critical areas of leadership development. The content develops the leadership skills essential for achieving personal and organizational objectives.

DNHY 520S. RESEARCH METHODOLOGIES AND SCHOLARLY WRITING. 4 Credits.
Pre-requisites: PUBH 510S or approved statistics course by dept.
This course focuses on the research methods, writing, critical and analytical skills necessary to complete a successful thesis, develop a grant, and use evidence based practices as a life-long learner.
DNHY 520S. INTRODUCTION TO THESIS. 1 Credit.
Notes: graded Pass/Fail.
Pre-requisites: PUBH 563S or approved statistics course by dept., DNHY 520S or concurrent enrollment in DNHY 520S. This course provides a foundation for development of a thesis on a chosen topic under the direction of a faculty member.

DNHY 557S. ADVANCED LOCAL ANESTHESIA. 1 Credit.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. Review of traditional techniques and science of local anesthesia administration followed by advanced procedures including recently introduced or alternative methods requiring non-standard armamentarium. The laboratory component focuses on refining existing skills and developing competency in advanced techniques. Proof of completion of an approved course in local anesthesia and a Washington state license to administer local anesthesia are required.

DNHY 559S. BASIC RESTORATIVE PROCEDURES. 3 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This is a comprehensive lecture, clinical, and laboratory course providing students an opportunity to acquire didactic, laboratory, and clinical knowledge associated with properties, selection, placement, and manipulation of dental materials. Topics include cements, bases, and sealers; temporary restorations; rubber dam application; composites and amalgams placement; and polishing amalgams.

DNHY 570S. ADVANCED HEALTH ASSESSMENT AND DIAGNOSTIC REASONING. 2 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This didactic and clinical course stresses problem-solving, critical thinking, and clinical judgment in providing a comprehensive, patient-centered approach to assessment, diagnosis, treatment planning, and evaluation within the context a dental collaborative management agreement. The oral-systemic link, socio-cultural, familial, environmental, and developmental influences across the lifespan are considered emphasizing health promotion, disease prevention, and management of common oral health problems.

DNHY 572S. INTRODUCTION TO OPERATIVE DENTISTRY TECHNIQUE. 5 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This lecture and laboratory course focuses on developing competency on theoretical and laboratory principles of operative dentistry utilizing direct placement restorative materials in the permanent dentition. In a simulated setting, operative dentistry techniques are applied to restore form, function, and esthetics to diseased teeth including basic principles of cavity preparation and restoration, and appropriate selection and application of direct restorative materials.

DNHY 575S. PHARMACOLOGICAL PRINCIPLES OF CLINICAL THERAPEUTICS. 2 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. Appropriate care for patients taking medications and delivery of pharmacological therapeutics to complement clinical dental hygiene practitioner care delivery within the scope of practice and collaborative management authorization are covered. Competency development in providing, dispensing, and administering analgesics, anti-inflammatories, and antibiotics are included.

DNHY 600S. THESIS. 2 Credits.
Notes: can be repeated for up to a total of 20 thesis credits.
Pre-requisites: DNHY 520S, DNHY 530S, PUBH 563S. Under the direction of faculty, students use current research to write a thesis demonstrating mastery of a chosen topic.

DNHY 605S. COMPONENTS OF PROGRAM DEVELOPMENT. 2 Credits.
This course offers an overview of general principles of teaching, learning and evaluation in academic and community oral health programs. Emphasis is on dissecting the components of program development (assessment, planning, implementation and evaluation).

DNHY 610S. HEALTHCARE EDUCATION THEORIES AND INSTRUCTIONAL METHODS. 2 Credits.
This course introduces evidence-based concepts to prepare the instructor /health promoter for a successful teaching experience. Major themes include learning and teaching styles, learning objective development, lesson planning, assessment strategies and classroom management techniques in traditional, laboratory, online and community settings.

DNHY 615S. PRINCIPLES OF DENTAL HYGIENE COURSE AND CURRICULUM DESIGN. 3 Credits.
Pre-requisites: DNHY 605S, DNHY 610S. This course focuses on the study of course and curriculum development, leadership, administrative theories and andragogy unique to the profession of dental hygiene.

DNHY 620S. SEMINAR ON CONCEPTS OF PUBLIC HEALTH AND HEALTH PROMOTION. 2 Credits.
In this thematic seminar students use current evidence to engage in discussion on topics related to the roles of advocate and health promoter.

DNHY 625S. CLINICAL TEACHING STRATEGIES. 2 Credits.
Pre-requisites: DNHY 605S, DNHY 610S. This course focuses on theories and methods of clinical instruction and supervision, including psychomotor skill development, competency-based evaluation, student mentoring and remediation. Organizational and administrative philosophies in clinical education based on accreditation standards are examined.

DNHY 630S. SEMINAR ON HEALTHCARE POLICIES AND FINANCE. 2 Credits.
This thematic seminar provides the student with opportunities to investigate and discuss current literature on healthcare policy and finance.

DNHY 635S. PRACTICUM. 5 Credits.
Notes: approval required for off-campus sites.
Pre-requisites: DNHY 605S, DNHY 610S, DNHY 615S, DNHY 625S. This course focuses on an individualized learning experience to apply principle and theories in an emphasis area.

DNHY 640S. SEMINAR ON ADMINISTRATION, MANAGEMENT AND ORGANIZATION. 2 Credits.
Pre-requisites: DNHY 505S, DNHY 615S. In this thematic seminar, students discuss the relational, operational and analytical skills key to success in administration including the application of leadership, management theory and organizational behavior. Topics include accreditation, quality assurance, policymaking, relationship building, strategic planning, conflict resolution and communication.
DNHY 660S. COMMUNITY BASED PRIMARY ORAL HEALTH CARE. 5 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. Lecture, laboratory, and clinical experiences furthers concept development and skills building for the dental hygiene practitioner student within the context of advance dental therapy practice noting indications for professional referral to provide comprehensive patient care. Complex amalgam and composite tooth preparations and restorations; pre-formed crown preparations and restorations; provisional restorations; preventive mouthguards; uncomplicated primary and permanent tooth exodontia; and pediatric restorative dentistry, atrumatic restorative dentistry, and pulpotomies are performed in a laboratory setting. Clinical rotations offer practice in behavior management; treatment planning; prevention; restorative care; repair of defective removable prosthetics and soft relines; and space maintenance for pediatric and adolescent patients.

DNHY 670S. MANAGEMENT OF DENTAL EMERGENCIES AND URGENT CARE. 2 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This didactic and simulation laboratory course reviews common medical and dental emergencies that may occur in dental settings, as well as, emergency management and prevention protocols. Emphasis is on accurate data collection, analysis, and information processing to develop appropriate action plans resulting in successful outcomes in the management of dental and medical emergencies. Medical emergency simulation laboratory experiences take place in a dental operatory.

DNHY 675S. ADVANCED SPECIALTY FIELDWORK. 2 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This seminar practicum course enables dental hygiene practitioner students to deliver primary and preventive oral healthcare services to special needs patients in extended campus clinical settings under the guidance of a dentist preceptor. Patient groups encountered may include: pediatrics, geriatrics, medically compromised, patients with genetic and/or acquired disabilities and financially or motivationally impaired patients. Clinical employment of telendontistry, professional referrals/consultations and collaborative management agreements to ensure comprehensive patient care is emphasized.

DNHY 680S. SUPERVISED COMMUNITY PRACTICUM. 3 Credits.
Pre-requisites: admission to the PB Dental Hygiene Practitioner program. This practicum and seminar based course offers in-depth dental hygiene practitioner clinical practice experiences of the oral health care practitioner student’s choosing. Emphasis is on providing primary and preventive oral health care dental services under the guidance of a dentist preceptor to one of the following underserved populations: pediatric; geriatric; medically; mentally; or psychologically compromised patients; financially and/or motivationally impaired patients. Competent, professional dental treatment requiring consideration outside routine patient methodology and comprehensive management of patient-centered dental problems within the context of advanced dental therapy practice is the course focus.

Design (DESN)

DESN 100. DRAWING FOR COMMUNICATION. 5 Credits.
This course covers hand-drawing as a design skill. Emphasis is on sketching, design drawing, design process and composition studies for visual presentation and design solutions. Students gain drawing skills such as basics of drawing techniques, basic shapes, light, texture, pattern, gesture and perspective drawing to communicate and present their ideas visually. Students learn and develop critical thinking and creative problem solving skills using the drawing process.

DESN 216. DIGITAL FOUNDATIONS. 4 Credits.
Introduction to media design and digital culture using computer software for the creation and manipulation of images and text, file management, and preparation for print, web or multimedia uses.

DESN 243. TYPOGRAPHY. 4 Credits.
Pre-requisites: DESN 100 and DESN 216. An introductory-level course concentrating on the fundamentals of typography with emphasis on letterforms, typographic syntax, type specification, type as image and the use of type in a variety of communicative purposes.

DESN 259. HISTORY OF DESIGN. 4 Credits.
This course considers the development of design in the broad sense of the term. Beginning with the Industrial Revolution and continuing forward to the present day, this course explores the components of design that have influenced the direction of design thinking.

DESN 263. VISUAL COMMUNICATION DESIGN 1. 5 Credits.
Notes: In order to receive the Visual Communication Design degree, students must earn ≥3.0 grade in this class, in addition to the department requirement ≥2.5 GPA in all DESN coursework.
Pre-requisites: DESN 100 and DESN 216. This course provides an introduction to Visual Communication Design including the theories, principles and practices of visual communication, concept development, design process and design technology.

DESN 275. DIGITAL SOUND. 4 Credits.
This course provides a foundation in the techniques of sound design, recording, production and editing for digital media. Students will create and record sound files, apply effects and mix and produce a variety of multimedia audio elements using state-of-the-art digital technology. Applicable uses include websites, games, multimedia products for promotion and learning, entertainment products and virtual worlds.

DESN 300. VISUAL LITERACY. 5 Credits.
Cross listed: CMST 300.
This course helps students develop the set of skills needed to critically interpret images of the past and present and produce images that effectively communicate a message to an audience. This includes an awareness of the technology’s role in the creation and dissemination of visual communication along with the role of persuasive strategies to target visual consumers. Students will both analyze and produce rhetorical-visual images and develop the skills needed to manage visual representation in a cultural context.

DESN 325. EMERGENT DESIGN. 4 Credits.
Pre-requisites: DESN 263.
This course explores benefits and risks of new design technologies. Students learn to recognize emergent design technologies and use them to address design problems and explore ways in which new tools reference past paradigms in order to create forward thinking design solutions. Through hands-on, project-based learning, students investigate the possibilities inherent in these new technologies.
DES 338. PRINCIPLES OF INTERACTION DESIGN. 4 Credits.
**Pre-requisites:** DESN 368 or concurrent enrollment.
Students investigate principles of interaction design of web enabled devices and differences and similarities between physical interaction and conceptual interaction through the use of metaphor. Exploring relationships between analog and digital frameworks, students become mindful of the overlapping patterns of interaction between the two systems. The five essential principles of interaction design: consistency, visibility, learnability, predictability and feedback are evaluated through the mediums of digital interface, physical object and environment.

DES 348. RHETORIC OF USER-CENTERED DESIGN. 4 Credits.
**Pre-requisites:** DESN 338, DESN 378 or concurrent enrollment.
Students examine different rhetorical frameworks that inform software user interface/experience (UI/UE) and content design. Supporting theories, such as visual rhetoric, contextual design, information architecture, gestalt, content strategy, and design ethics, are investigated. Students demonstrate their understanding of theoretical principles by creating and redesigning small UI-related deliverables and by practicing rigorous written analysis and critique.

DES 350. DIGITAL IMAGING AND PHOTOGRAPHY. 4 Credits.
**Pre-requisites:** junior standing.
This introductory course teaches beginning photographers how to improve their photographic technique, use digital cameras for effective visual communication and edit images with professional software tools. Working with their own digital cameras students will practice professional shooting strategies and produce weekly practical and creative photo assignments. Topics include camera theory; digital formats; composition basics; composing within the frame; using natural and artificial lighting; texture, shape, form and line in the photograph; framing with foreground elements; digital darkroom techniques; repair and retouching; compositing, portraiture, scenic and nature photography; product photography, action photography and close-up photography.

DES 351. ADVANCED PHOTOGRAPHY. 4 Credits.
**Pre-requisites:** DESN 350.
An extension of DESN 350 with considerable work in advanced enlarging techniques portraiture with emphasis on lighting, architectural photography, slidemaking, color transparencies, and color prints.

DES 355. MOTION DESIGN. 4 Credits.
**Pre-requisites:** DESN 263.
This course explores the principles of design through motion, with an emphasis on effective use of typography, graphical elements, sound and motion within time and space. Students learn how to import projects, create narrative structures, storyboard, output for various devices and problem solve moving image concerns.

DES 360. PUBLICATION DESIGN. 4 Credits.
This course covers principles of design, typography, and the use of graphic files, in both print and digital publication. Professional desktop publishing software and common web design software are used. Emphasis is on skills required for basic literacy as well as the effective design of common formats such as brochures, newsletters, books, and web pages.

DES 363. VISUAL COMMUNICATION DESIGN 2. 5 Credits.
**Notes:** in order to advance into Visual Communication Design 3, students must earn ≥3.0 grade in this class.
**Pre-requisites:** DESN 243 and DESN 263 with a grade ≥3.0.
This course focuses on the interaction of type and image in the visual communication design process. An introduction to form and composition will be achieved through a sequence of design projects that emphasize compositional structure. The goal of class projects is the development of complex, cohesive visual systems using traditional production skills, design processes and specialized computer applications.

DES 366. PRODUCTION DESIGN. 4 Credits.
**Pre-requisites:** DESN 263.
This course provides students with theory, knowledge and skill of production design for both print and web application. Students gain conceptual understanding and practical skill in areas including color management, print production and web graphics such as banners and videos.

DES 368. WEB DESIGN 1. 4 Credits.
This course covers professional web design addressing modern technologies, processes and techniques. Students work with current web technologies, while preparing for future web enabled devices, or the progressive enhancement approach. Technologies will include HTML(5) and CSS(2/3).

DES 374. BRAND THINK AND SERVICE DESIGN. 4 Credits.
**Pre-requisites:** DESN 363.
This course explores the research and strategies of service design and brand development. Through case study research, students come to understand what constitutes a successful brand solution and how shared community experiences are created.

DES 375. DIGITAL VIDEO. 4 Credits.
**Pre-requisites:** DESN 216.
This course offers an introduction to digital video techniques. Students will be introduced to production, editing, theory and practical application for the creation of effective visual communication solutions. Emphasis will be on the creative application of concept and design for the moving image and understanding how to integrate textual, graphical and audio elements for the successful communication of messages created for CD, DVD and the Web.

DES 378. WEB DESIGN 2. 4 Credits.
**Pre-requisites:** DESN 368.
This course covers modern user experience (UX) design, rapid prototyping, and modern user interface (UI) patterns. Web programming continues to build upon HTML(5), CSS(2/3), and with the addition of JavaScript frameworks to complement the progressive enhancement process. This course continues the foundations set by DESN 368.

DES 385. ADVANCED DIGITAL SOUND. 4 Credits.
**Pre-requisites:** DESN 275.
This course provides in-depth experience in digital sound creation and editing techniques, along with related hardware and software. Topics include live and studio recording techniques, multi-track project recording, mixing and mastering, and the design and creation of sound tracks, including music, to support and enhance typical media productions. Collaborative and individual projects will be required.

DES 396. EXPERIMENTAL COURSE. 1-5 Credits.
**EXPERIMENTAL**
DESN 458. USER INTERFACE DESIGN AND PRACTICE. 4 Credits.
Pre-requisites: DESN 378 and DESN 348 and concurrent enrollment in DESN 468.
This course explores the importance of user interface and emphasizes the role visual structure plays in the design of user experiences. Students apply the prototyping process: research, application, testing and iteration to create useful interactions between web enabled designs and end users. Principles and practices of digital typographic presentation to achieve communication goals and objectives are studied.

DESN 463. VISUAL COMMUNICATION DESIGN 3. 5 Credits.
Pre-requisites: DESN 243 and DESN 263 with a grade ≥3.0.
This course continues the study of visual communication design, combining theoretical studies with applied projects. It emphasizes awareness of contemporary visual culture through analysis of a wide range of design examples and continued refinement of perceptual, problem-solving and creative skills. Students employ effective design processes and solutions for issues and topics relevant to contemporary visual communication design practice.

DESN 468. WEB DESIGN 3. 4 Credits.
Pre-requisites: DESN 378.
Web Lab is a project- and team-based course focusing on the design and development of experimental websites and web applications. Students are introduced to responsive web design processes, techniques and technologies. Design addresses the challenges of mobile interactions and evolving mobile devices.

DESN 471. SENIOR EXHIBITION. 1 Credit.
Cross listed: ART 471.
Notes: must be repeated three times for credit.
Pre-requisites: senior standing and declared BFA in VCD major.
This course entails the individual preparation and presentation of work for senior exhibition.

DESN 474. ADVERTISING CONCEPTS. 4 Credits.
Pre-requisites: DESN 363 and DESN 368. This course covers principles of advertising design, specifically developing advertising concepts. Open to students in visual communication design, journalism and marketing programs.

DESN 480. PROFESSIONAL PRACTICE. 4 Credits.
Pre-requisites: senior standing.
Professional Practice is the study of the visual design industry from both the agency and freelance perspective.

DESN 490. SENIOR CAPSTONE. 4 Credits.
Pre-requisites: senior standing; DESN 243, DESN 363, DESN 368.
Satisfies: senior capstone university graduation requirement.
This course expands on previous visual communication design knowledge and skills and also emphasizes communication, collaboration and presentation skills. In teams, students work on a comprehensive design project for a community partner which emphasizes design research and the design processes that lead to creative conceptualization and final design solutions. Students are expected to demonstrate sophisticated design decisions and appropriate design solutions that show a high level of expertise and achievement.

DESN 491. SENIOR PROJECT. 1-10 Credits.
Notes: graded Pass/Fail.
Pre-requisites: senior standing; permission of the instructor.
Independent and/or group study and production of a design project.

DESN 493. PORTFOLIO. 2 Credits.
Notes: may be repeated for credit up to three times.
Pre-requisites: DESN 463.
In this course, students have the opportunity to develop portfolio quality work. Emphasis is placed upon content and concept development, problem solving, formal solutions, statements of objectives and presentation.

DESN 495. INTERNSHIP. 2-6 Credits.
Notes: graded Pass/Fail.
Pre-requisites: junior standing; permission of instructor, department chair and college dean. An internship is on-the-job-training. It exposes students to the professional environment through outside job opportunities in graphic design studios, advertising agencies, corporate communications departments and other acceptable organizations. Students work under the guidance of art directors, creative directors, senior graphic designers or marketing communication managers and perform creative work that is educational and meaningful for their short-term academic goals as well as their long-range career preparation.

DESN 496. EXPERIMENTAL COURSE. 1-6 Credits.

DESN 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-6 Credits.

DESN 498. SEMINAR. 1-6 Credits.

DESN 499. DIRECTED STUDY. 1-6 Credits.
Pre-requisites: permission of instructor, department chair and college dean.

Disability Studies (DSST)

DSST 310. DISABILITY, CULTURE AND SOCIETY. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement.
This course introduces students to disability as diversity and to the culture of people with disabilities. Historical and contemporary beliefs about disability will be addressed. Universal access will be introduced as an emerging context for disability rights and human rights.

DSST 410. DISABILITY AS DIVERSITY. 5 Credits.
Disability is just one of many manifestations of human diversity. This course has been developed to help explore disability throughout the lifespan and in the social and societal contexts that frame disability experience. Students from multiple fields will develop understanding of disability accommodation and how universal access benefits all of society, including those from majority and minority backgrounds.

DSST 490. SENIOR CAPSTONE PROJECT IN UNIVERSAL ACCESS. 5 Credits.
Pre-requisites: DSST 410 or permission of the instructor.
Satisfies: senior capstone university graduation requirement.
This course provides students the opportunity to develop a community-based, service-learning project with colleagues from multiple academic disciplines. Under the direction of the instructor, students participate in a project that addresses universal access in the context of a diverse society. At the discretion of the student's academic major advisor, it can also serve as a Senior Capstone experience. Weekly lectures will integrate conceptual and practical learning relative to universal access for diverse populations including those with disabilities.
DSST 496. EXPERIMENTAL COURSE. 1-5 Credits.

DSST 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Independent study under faculty direction, adapted to individual needs of the students.

DSST 501. DISABILITY, CULTURE AND SOCIETY. 5 Credits.
Pre-requisites: baccalaureate degree or instructor permission.

Disability and persons with disabilities have been with us throughout the history of humankind. This course has been developed to familiarize students to disability as a component of the diverse tapestry of society. Historical disability conceptualizations and issues will be discussed. Contemporary and emerging explanations of disability in contemporary society and Disability Culture will be explored.

DSST 510. DISABILITY AS DIVERSITY. 5 Credits.
Notes: may be stacked with DSST 410.
Pre-requisites: baccalaureate degree or instructor permission.

Disability shapes, and is shaped by, multiple social and cultural identities as well as lived experiences. This course teaches students to recognize, analyze, and comprehend disability, and disabled persons, as part of the rich tapestry of human experience; including disability intersections with other diverse identities and groups in society. Working through interdisciplinary scholarship, cultural artifacts, and first-person accounts, students will learn how disability compliments and also complicates existing identity categories and notions of diversity.

DSST 520. HUMAN DIVERSITY AND SOCIETY: LAWS AND SOCIAL POLICIES. 5 Credits.
Pre-requisites: bachelor’s degree or permission of the instructor.

This course explores historical and contemporary U.S. structures, laws and policies and their impacts on access to society. Based on the premise that all people and groups have inalienable rights to “life, liberty and pursuit of happiness,” this course was developed to explore the impact and evolution of laws and policies that affect the rights of individuals and groups. Using a critical diversity lens, it brings together students and scholars from multiple disciplines and diversities by providing a unifying framework of universal access (drawn from the Disability field) to analyze the intent and impact of laws on majority and minority groups based on attributes such as disability, race and ethnicity, social class, gender and sexual orientation and identity in all walks of life in society.

DSST 530. DISABILITY: CRITICAL PERSPECTIVES FROM THE LIBERAL ARTS AND HUMANITIES. 5 Credits.
Notes: may be stacked with DSST 430.
Pre-requisites: bachelor’s degree or permission or instructor.

This course addresses Disability Studies as it is unfolded within and across the humanities and liberal arts. Over the last generation, disability studies scholars have analyzed representations of people with disabilities as they appear in literature, myth, art, film, photography, music and theatre. These fields reflect and shape the meaning and reality of disability. Poetic and other artistic modes of discourse can deepen our understanding of the lived experience of disability. These shared representations of disability are, for the most part, taken for granted even though they have a powerful effect on popular culture, influence the attitudes and behaviors of individuals, and play a part in the formation of public policy related to disability. In addition to exploring analysis of disability representation, we will also look at scholarly interventions within the humanities and learn about humanities-based research methods that have come out of disability studies.

DSST 590. INTERDISCIPLINARY PROJECT IN UNIVERSAL ACCESS. 5 Credits.
Notes: may be stacked with DSST 490.
Pre-requisites: DSST 510 or permission.

This course is applies classroom learning to community settings. Students in this course will participate in community engaged service learning with colleagues from multiple academic disciplines. Under the direction of the instructor and working with a community mentors, students will participate in projects that enrich the community by enhancing universal access and full participation in society by diverse groups.

DSST 596. EXPERIMENTAL COURSE. 1-6 Credits.
ECON 337. ECONOMETRICS. 5 Credits.
Pre-requisites: ECON 200, ECON 201 and DSCI 245 or MATH 380 or MATH 385 or instructor permission.
Using appropriate statistical software packages for data analysis, examines applications of linear regression and hypothesis testing to provide information for economic and business decision-making.

ECON 396. EXPERIMENTAL COURSE. 1-5 Credits.

ECON 398. SEMINAR. 1-5 Credits.

ECON 399. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: ECON 200 and ECON 201 or permission of the instructor, department chair and college dean.
Subjects studied vary according to faculty and student interest.

ECON 412. ECONOMIC HISTORY OF THE UNITED STATES. 5 Credits.
Cross listed: HIST 487.
Pre-requisites: junior standing.
Economic development of the United States from the early colonial period to the present: explorations, westward movement, labor, rise of great industries, world trade and post-war economic problems.

ECON 415. HISTORY OF ECONOMIC THOUGHT. 5 Credits.
Pre-requisites: junior standing.
Economic thought to the early 20th century; special attention to selected writers including Aristotle, the Mercantilists, the Physiocrats, Hume, Smith, Malthus, Ricardo, Marx, the Marginalists and Marshall.

ECON 417. POLITICAL ECONOMY. 5 Credits.
Pre-requisites: junior standing.
How public decisions can be made more rational, more productive of welfare, or more in the general interest. Selected literature from economics, political science, and related disciplines provides an analytical framework for the discussion of a number of social problems.

ECON 421. LABOR ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
Supply and demand for the labor and important institutions in the labor market, especially the upgrading of labor via education and vocational training, the mobility of labor, the influence of trade unions on wages, the effects of race and sex discrimination on wages, and labor's inflation unemployment problems.

ECON 424. ECONOMICS OF POVERTY AND DISCRIMINATION. 5 Credits.
Cross listed: AAST 424, WMST 426.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
Causes of poverty and evaluation of anti-poverty programs. Examines economic theories of discrimination from different perspectives with a particular focus on issues of gender and race.

ECON 427. ECONOMICS OF WOMEN AND WORK. 5 Credits.
Cross listed: WMST 427.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
Economic impact of the increasing participation of women in the paid labor force of the United States. Economic theories of labor force participation, discrimination and occupational segregation. Current issues such as comparable worth, affirmative action, nontraditional careers, corporate policies, sexual harassment, child care and social welfare programs.

ECON 429. WOMEN AND MEN IN THE U.S. ECONOMY. 1 Credit.
Cross listed: WMST 402.
In the course we examine the economic activity and labor force participation of women and men in the United States. Employment issues, such as labor market discrimination, affirmative action and comparable worth will be discussed. Other topics include income distribution, poverty, welfare programs and the tax system.

ECON 430. MATHEMATICAL ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 and MATH 161.
Mathematical methods and techniques applied to economic problems.

ECON 433. INDUSTRIAL ORGANIZATION. 5 Credits.
Pre-requisites: ECON 200.
Industrial organization is the study of industry and firm behavior. This course will use the basic tools of microeconomic theory and game theory to explore the relationships among firms in an industry or across industries and examine the nature of strategic interaction among firms.

ECON 438. ECONOMETRICS II. 5 Credits.
Pre-requisites: ECON 337 or instructor permission.
This course extends the modeling, estimation, inference and forecasting tools to include moment-based estimation, simultaneous equations models, non-stationary data and cointegration, VAR and ARCH models.

ECON 444. MONEY AND BANKING. 5 Credits.
Pre-requisites: ECON 200 and ECON 201 or instructor permission.
Reviews contemporary US banking practices and regulations; surveys theories of interest rates and bank behavior; surveys monetary policies and determinants and effects of Federal Reserve policies.

ECON 445. INSURANCE AND RISK. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
This course examines the principles of insurance and ways of managing risk. It includes discussion of the development and forms of private and social insurance programs.

ECON 450. PUBLIC FINANCE AND PUBLIC POLICY. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
Examines the causes and consequences of government in the US economy and impact of government expenditure and revenue-raising activities.

ECON 452. HEALTH ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
Examines economic aspects of health care, including factors influencing the demand and supply of health services and the roles of insurance and government in healthcare markets. (Cross-listed HSAD 415)

ECON 454. SPORTS ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
This course uses microeconomic principles to examine the behavior of individuals, teams, leagues, unions and government in the production and consumption of sports entertainment. Topics covered include: competitive balance, salary caps, stadium financing and collective bargaining.

ECON 457. NATURAL RESOURCE ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
Uses microeconomic reasoning and models to examine the allocation and management of non-renewable and renewable resources such as land, water, fossil fuels and mineral resources, fisheries and forests.
ECON 458. URBAN AND REGIONAL ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 or instructor permission.
Economic analysis of urban and regional economies with an emphasis on
the Pacific Northwest. Topics covered: spatial economic theory, regional
economic growth and stability, land use, urban problems and policies,
transportation issues, local government public finance and methods of
regional analysis.

ECON 470. INTERNATIONAL ECONOMICS. 5 Credits.
Pre-requisites: ECON 200 and ECON 201 or instructor permission.
Satisfies: international studies university graduation requirement.
Interaction of national economics and the problems arising there from,
particularly trade and payments problems and the development of
regional and international economic institutions.

ECON 474. INTERNATIONAL FINANCE. 5 Credits.
Pre-requisites: ECON 200 and ECON 201 or FINC 335 or instructor
permission.
The material in this course develops a general framework to analyze
international financial markets, exchange rates, exchange rate derivatives
and open macroeconomic economies.

ECON 475. ECONOMIC DEVELOPMENT. 5 Credits.
Pre-requisites: ECON 200 and ECON 201 or instructor permission.
Satisfies: international studies university graduation requirement.
Development prospects of present-day underdeveloped countries.
Historical development of industrial countries by analogy. Attention given
to both economic and non-economic factors in the development process
and to population problems and human resource development.

ECON 490. ECONOMICS SENIOR CAPSTONE. 5 Credits.
Pre-requisites: ECON 337 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course includes four components: (1) review of modern theories of
employment, job search and wage determination (2) portfolio preparation
(3) program assessment and (4) a final economics project.

ECON 495. INTERNSHIP. 3-5 Credits.
Pre-requisites: permission of the instructor, department chair and college
dean.

ECON 496. EXPERIMENTAL COURSE. 1-5 Credits.

ECON 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5
Credits.

ECON 498. SEMINAR. 3-5 Credits.

ECON 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college
dean. ECON 200 and ECON 201 and at least 5 credits of prior 400 level
ECON courses.
Independent study projects in selected fields of economics. Limited to
senior and graduate students.

ECON 539. ADVANCED QUANTITATIVE METHODS FOR POLICY
ANALYSIS. 4 Credits.
Pre-requisites: PLAN 396 and BADM 500.
The course introduces students to the quantitative evaluation of public
policies with the help of regression based evaluation methods and cost-
benefit analysis. The first part of the course will introduce students to
basic multiple regression analysis including hypothesis testing, modelling
of non-linear relationships, dummy variables, instrumental variables,
time series techniques, panel data and structural break / discontinuity
methods to assess the casual effectiveness of policy interventions.
Students will acquire both macro and micro-economic data useful for
policy analysis from common sources such as the Census Bureau,
Federal Reserve (FRED), Bureau of Labor Statistics and the Council
of Economic Advisers and will use model building and specification
testing techniques to evaluate the effectiveness of policy interventions.
The second part of the course provides an overview over cost-benefit
and cost-effectiveness analysis to assess public policies, programs or
regulations. Topics in this section include valuing costs and benefits in
both primary and secondary markets, using survey data and contingent
valuation.

ECON 550. PUBLIC FINANCE AND PUBLIC POLICY. 4 Credits.
Notes: may be stacked with ECON 450.
Pre-requisites: ECON 200 or BADM 500.
Examines the causes and consequences of government in the US
economy and impact of government expenditure and revenue-raising
activities.

ECON 558. URBAN AND REGIONAL ECONOMICS. 4 Credits.
Cross listed: BADM 518.
Notes: may be stacked with ECON 458.
Pre-requisites: ECON 200 and ECON 201 or BADM 500.
The major purpose of the course is to learn basic theories, methods and
models in urban regional economics. First, we will consider basic models
and theories to explain why, how and where urban areas exist, how urban
areas have evolved over time and the location decisions of firms and
households. Second, we will draw upon economic theories and use the
tools of economics to analyze issues facing urban areas. These issues
include urban poverty, congestion, crime, pollution, housing, foreclosure,
segregation, drug usage, among others. We will consider policy options
that can be used to address these issues and consider relevant economic
research in the area.

ECON 575. ECONOMIC DEVELOPMENT. 4 Credits.
Cross listed: BADM 510.
Notes: may be stacked with ECON 475.
Pre-requisites: ECON 200 and ECON 201 or BADM 500.
Development prospects of present-day underdeveloped countries.
Historical development of industrial countries by analogy. Attention given
to both economic and non-economic factors in the development process
and to population problems and human resource development.

ECON 589. TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS. 4
Credits.
Cross listed: PADM 589, PLAN 589.
Pre-requisites: instructor permission.
The course serves as the capstone experience for the Certificate in
Regional Economic Policy Analysis. In consultation and agreement
with the course instructor, students will select some regional economic
activity for intensive research and policy analysis. During their
research students are expected to demonstrate the ability to utilize
information, skills and techniques acquired in related Certificate courses.
Successfully completion of the course will result in a research paper and
a presentation appropriate for a professional conference.
ECON 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
ECON 598. GRADUATE SEMINAR. 1-4 Credits.
Pre-requisites: permission of the instructor. Variable topics according to student interests.
ECON 599. INDEPENDENT STUDY. 1-4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
ECON 600. THESIS. 2-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent research under the direction of a graduate advisory committee.
ECON 601. RESEARCH REPORT. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent research resulting in a scholarly paper under the direction of the student's graduate committee.
ECON 696. COLLEGE TEACHING INTERNSHIP. 1-4 Credits.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student course evaluation.

Education (EDUC)

EDUC 146. COLLEGE READING AND STUDY TECHNIQUES. 5 Credits.
Individual evaluation, prescription, and practice for improvement of study reading, note-taking, spelling, and study techniques.
EDUC 150. READING/STUDY SKILLS. 1-2 Credits.
Notes: students may earn a maximum of two credits a quarter and may earn a total of five credits during their tenure at the university.] This class is to assist students with reading and study skills. Techniques introduced and practiced within content areas of courses in which the students are enrolled include: time management, textbook reading, taking lecture notes, reduce-SQ3R, retain-SQ3R, test taking skills. Reading enhancement will involve techniques for improving rate, comprehension, vocabulary and critical reading. Other skills addressed may include spelling and tutoring for specific subjects. [Special
EDUC 160. DIRECT INSTRUCTION TUTORING. 1-6 Credits.
Pre-requisites: permission of the instructor.
Classroom tutoring using Direct Instruction teaching techniques and curriculum.
EDUC 195. INTERNSHIP. 1-6 Credits.
EDUC 196. ADVANCED STUDY SKILLS. 1-2 Credits.
EDUC 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
EDUC 200. ADMISSION TO TEACHER EDUCATION. 1 Credit.
Notes: Acceptance into the Teacher Education Program required. Department authorization and application required. See an advisor for scheduling co-requisites. Graded Pass/Fail.
Pre-requisites: A grade ≥2.8 in each of these courses ENGL 201; MATH 211 or MATH 107; CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B) or satisfactory minimum SAT or ACT scores; a minimum cumulative GPA ≥2.8. This course is required prerequisite to most education courses and admission to the teacher preparation program. The course includes orientation to the EWU Teacher Education Program, completion of Washington State Patrol/FBI Clearance, moral character and personal fitness supplement; introduction to Washington Administrative Code (WAC) knowledge and skills, Washington State Learning Goals (WASL) and Essential Academic Learning Requirements (EALRs); Office of the Superintendent of Public Instruction (OSPI); the Department of Education reflective teaching model and Evidentiary Portfolio; required P–12 public school field experiences; school-based communication skills and legal and professional certification requirements. This course has co-requisites depending on your program.
EDUC 201. INTRODUCTION TO EDUCATION. 3 Credits.
EDUC 201 is an overview of the role of the schools in a democratic society, an introduction of reflective thinking concept for professional educators, an analysis of various philosophical views of teaching and learning, and an introduction to the restructuring of the K–12 educational system in the state of Washington.
EDUC 260. DIRECT INSTRUCTION MENTORING. 1-6 Credits.
Pre-requisites: EDUC 160 or permission of the instructor.
Classroom mentoring experiences using Direct Instruction teaching techniques and curriculum.
EDUC 296. EXPERIMENTAL COURSE. 1-5 Credits.
EDUC 299. SPECIAL STUDIES. 1-18 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects studied vary according to faculty and student interests.
EDUC 300. INTRODUCTION TO CLASSROOM EXPERIENCE. 1-4 Credits.
Notes: graded Pass/Fail
Pre-requisites: EDUC 200, Washington State Patrol form submitted. This course is open to students admitted to the Education Program only. Observation and participation in public school classroom management and instruction. Your schedule must be arranged so time can be spent in a public school classroom during the day. After registering for EDUC 300, sign up for placements in the Department of Education, Williamson Hall, third floor.
EDUC 303. FOUNDATIONS OF ASSESSMENT. 3 Credits.
Pre-requisites: ENGL 201; MATH 211 or MATH 107; CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B); ≥2.8 GPA. Co-requisites: EDUC 200 and either EDUC 308 or EDUC 309. This class focuses on developing objectives, lesson planning, assessment of student learning, measurement and assessment of the total school program including National and State Learning Goals/Standards and Washington State Essential Academic Learning Requirements.
EDUC 304. INTRODUCTION TO ELEMENTARY READING. 3 Credits.
Prerequisites: successful completion of EDUC 200, EDUC 303 and EDUC 308 or may be taken concurrently.
This course investigates reading processes, emergent literacy, word identification, vocabulary and comprehension in elementary reading programs.

EDUC 305. CHILDREN'S LITERATURE STUDY AND USE. 4 Credits.
Prerequisites: EDUC 200, EDUC 303, EDUC 308 or EDUC 309 or may be taken concurrently. This course includes selected readings and discussions of a variety of children's books. It allows students to become acquainted with quality children's literature and suggests media center and K–8 classroom uses.

EDUC 308. FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT. 3 Credits.
Notes: Application required. Department authorization required.
Prerequisites: ENGL 201; MATH 211, CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B); ≥2.8 GPA. Co-requisites: EDUC 200 and EDUC 303.
This course addresses organizational patterns, management skills, discipline practices, individual actions and classroom environmental conditions needed to provide an optimum learning environment at the elementary level.

EDUC 309. FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT. 3 Credits.
Prerequisites: ENGL 201; MATH 107 or MATH 211, CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B); ≥2.8 GPA in the last 45 credits completed. Co-requisites: EDUC 200 and EDUC 303.
This course addresses organizational patterns, management skills, discipline practices, individual actions and classroom environmental conditions needed to provide an optimum learning environment at the secondary level.

EDUC 310. LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL. 4 Credits.
Prerequisites: EDUC 304.
Washington State Patrol Clearance/FBI fingerprinting clearance. This course extends the understanding of the reading process approach to teaching reading across the elementary school curriculum (K-8). Lesson plan development includes assessment of student learning and classroom management. Placement in P-12 school with minimum 3 hour per week field experience required.

EDUC 320. ASSESSING AND DIFFERENTIATING LITERACY INSTRUCTION. 4 Credits.
Prerequisites: EDUC 304; may be taken concurrently with EDUC 310.
This course offers a comprehensive look at formative and summative assessments for reading, writing and oral language development for P-12 students including those at risk. Candidates learn to use assessment data, make instructional decisions and prepare professional reports.

EDUC 323. A GLOBAL VIEW THROUGH CHILDREN'S LITERATURE. 5 Credits.
Cross listed: ENGL 323.
Satisfies: international studies university graduation requirement.
By reading and discussing a variety of children's literature titles across several interrelated thematic units, students will examine cultural constructs, gain familiarity with international cultures, work toward empathy for other peoples and practice a critical reading stance about stories from around the world. Coursework will include papers, journals, large and small group discussions and presentations.

EDUC 325. INEQUALITIES AND IMPACTS ON EDUCATIONAL EQUITY. 4 Credits.
Prerequisites: junior standing or permission of instructor.
Satisfies: cultural and gender diversity university graduation requirement.
An exploration of concepts, principles and theories of educational equity and their function within a society. This course includes issues of ethnicity and race, socioeconomic status and gender inequalities within the U.S. and the impact of those inequalities on educational equity.

EDUC 338. LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL. 4 Credits.
Prerequisites: EDUC 310 or EDUC 456, EDUC 479 and EDUC 493; concurrent enrollment in EDUC 339 or EDUC 340 and EDUC 342.
Washington State Patrol Clearance/FBI fingerprinting clearance required. Placement in P-12 school with minimum 9 hour per week field experience required. This course examines the environment needed to teach the skills of listening, speaking and writing in the elementary program, including lesson plan development, assessment of student learning and classroom management.

EDUC 339. SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL. 5 Credits.
Prerequisites: EDUC 310 or EDUC 456, EDUC 479 and EDUC 493; concurrent enrollment in EDUC 338. Washington State Patrol Clearance/FBI fingerprinting clearance required. Placement in P-12 school with minimum 9 hour per week field experience required. This course includes formulation of goals for social studies and science, selection of content to be taught at each grade level, development of daily lesson plans and unit plans utilizing recommended teaching strategies, assessment of student learning and classroom management and participation in teaching lessons in an elementary classroom.

EDUC 340. SOCIAL STUDIES METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL. 4 Credits.
Notes: Washington State Patrol clearance/FBI fingerprinting clearance required. Placement in P-8 school with minimum nine hour per week field experience required.
Prerequisites: EDUC 310; concurrent enrollment in EDUC 338 and EDUC 342.
This course includes formulation of goals for social studies, selection of content to be taught at each grade level, development of daily lesson plans and unit plans utilizing recommended teaching strategies, assessment of student learning and classroom management and participation in teaching lessons in an elementary classroom.

EDUC 341. SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT. 4 Credits.
Prerequisites: EDUC 413. Washington State Patrol/FBI fingerprinting clearance. This course deals with teaching and learning procedures appropriate for courses in the junior and senior high school. It demonstrates a variety of teaching strategies. Candidates develop skills in basic instructional techniques including lesson plan development, assessment of student learning and classroom management. The course is designed to supplement methods course work taken in major departments. Placement in P-12 school with minimum 9 hour per week field experience required.
EDUC 342. SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL. 4 Credits.
Notes: Washington State Patrol Clearance/FBI fingerprinting clearance required. Placement in P-8 school with minimum nine hour per week field experience required.
Pre-requisites: EDUC 310; concurrent enrollment in EDUC 338 and EDUC 340.
This course includes formulation of goals for science, selection of content to be taught at each grade level, development of daily lesson plans and unit plans utilizing recommended teaching strategies, assessment of student learning and classroom management and participation in teaching lessons in an elementary classroom.

EDUC 390. FOUNDATIONS OF EARLY CHILDHOOD EDUCATION. 3 Credits.
Pre-requisites: EDUC 200 or concurrently enrolled.
This course surveys theories of human development that shape blended early childhood practices and inform classroom-teaching practices. Students are introduced to professional and ethical standards associated with the blended early childhood field. Students review position statements on ethics, inclusion, developmentally appropriate, and recommended practices put forth from leading professional organizations including the National Association for the Education of Young Children and the Division for Early Childhood of the Council for Exceptional Children. Additional topics discussed include: brain development, typical development milestones, introduction to historical, and political and legal foundations relating to ECE/ECSE practices.

EDUC 396. EXPERIMENTAL COURSE. 1-5 Credits.

EDUC 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

EDUC 398. SEMINAR. 1-5 Credits.

EDUC 399. DIRECTED STUDY. 1-18 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

EDUC 401. YOUNG ADULT LITERATURE STUDY AND USE. 4 Credits.
Pre-requisites: EDUC 305 or permission of the instructor.
This course is designed to provide teachers with the skills and information to develop and implement a classroom literacy program for middle and secondary students. It emphasizes instructional strategies to accommodate student diversity using a selection of literature genres as the curriculum foundation.

EDUC 409. TEACHING THE GIFTED AND TALENTED. 3 Credits.
Analyzes the characteristics of educational programs for the gifted and talented. Helps you develop teaching strategies and curriculum materials designed to provide appropriate educational programs for the gifted and talented.

EDUC 410. METHODS I: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION. 4 Credits.
Pre-requisites: EDUC 200 or concurrent enrollment.
This course is designed to provide an overview of major program models, systems, and approaches in the blended ECE/ECSE field. Topics include state and federal models for serving young children and widely researched curricular approaches. Students will be introduced to serving children in inclusive environments while utilizing principles of Universal Design for Learning. A focus on research- and evidence-based practices is included.

EDUC 411. LITERACY FOR LINGUISTICALLY AND CULTURALLY DIVERSE LEARNERS. 4 Credits.
Pre-requisites: EDUC 310 or may be taken concurrently.
This course allows teacher candidates to analyze cultural and language differences that may influence how P-12 students acquire literacy. It focuses on teaching students for whom English is not the heritage or first language.

EDUC 412. CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR LITERACY MAJORS AND MINORS. 4 Credits.
Pre-requisites: EDUC 304.
This course presents a variety of strategies for improving P-12 students’ comprehension of content area materials and techniques for analyzing written materials. Assessment of student learning and classroom management is covered.

EDUC 413. CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES. 4 Credits.
Pre-requisites: EDUC 200, EDUC 303 and EDUC 309.
Washington State Patrol/FBI fingerprinting clearance. This course presents a variety of strategies for improving 5–12 students’ comprehension of content area materials and techniques for analyzing written materials. Lesson plan development includes assessment of student learning and classroom management. Placement in 5–12 school with minimum three hour per week field experience required.

EDUC 416. WRITING PROCESS ACROSS THE CURRICULUM. 4 Credits.
Pre-requisites: EDUC 412, EDUC 413, may be taken concurrently.
This course provides candidates with a theoretical and strategic approach to writing pedagogy. Teacher candidates are prepared to teach writing across the curriculum.

EDUC 417. CULTURE OF MIDDLE SCHOOL. 3 Credits.
Pre-requisites: EDUC 200; EDUC 303; EDUC 308 or EDUC 309.
This course will promote awareness and understanding of middle level-aged students, of the philosophy and organization of middle level schools and programs and of developmentally appropriate instructional and classroom management strategies for teaching middle level learners.

EDUC 420. ADMISSION TO PROFESSIONAL CANDIDACY. 1 Credit.
Notes: graded Pass/Fail.
Pre-requisites: P-3: EDUC 457; concurrent with EDUC 439 and EDUC 495, Elementary: EDUC 338 and EDUC 339, Secondary: EDUC 341. Washington State Patrol/FBI clearance required. Placement in P–12 school with minimum 3 hour per week field experience required. The successful completion of EDUC 420 leads to student teaching candidacy. The candidate is asked to demonstrate characteristics of desirable teacher-pupil relations. In partial fulfillment of the course requirements, a Teacher Education Evidentiary Portfolio will be presented by each candidate documenting Department of Education performance-based outcomes, Washington State Learning Goals and, evidence of successful performance in the field. Teacher candidates must have completed at least three-fourths of the course work for their majors(s) and minor(s) before taking this course. All methods courses within the candidate’s major must also be completed prior to taking EDUC 420. All candidates must have a minimum overall GPA ≥2.8 and all course grades in the candidate’s Professional Education program must be ≥2.8. Majors and minors courses require a minimum grade ≥2.0.
EDUC 421. COMPETENCY PREPARATION. 1 Credit.
Notes: placement in a P-12 school with minimum 3 hour/week field experience required.
Pre-requisites: EDUC 420.
This course emphasizes competence and skills required in testing for teaching readiness including, a) critical thinking skills; b) preparing for tests, test-taking strategies, and specific strategies for content practice tests; c) creating good review tools, predicting test questions and testing readiness; d) West-E or NES score analysis and self-review for specific areas of remediation; and, e) study skills and time management skills for complex standardized testing.

EDUC 423. ELEMENTARY STUDENT TEACHING K-8. 15 Credits.
Notes: graded Pass/Fail.
Pre-requisites: EDUC 420.
Departmental clearance required prior to registration. Students must have completed at least three-fourths of the coursework for their major(s) and minor(s) before taking this course. All students must have a minimum overall GPA ≥ 2.8 in each of the following: major(s), minor(s) and Professional Education Program. All course grades in the student's major(s), minor(s) and the Professional Education Program must be at least 2.8. Washington State Patrol and FBI clearance must be current. For a complete description of activities and procedures associated with student teaching, please refer to the department’s Student Teaching Handbook.

EDUC 426. SECONDARY STUDENT TEACHING 7-12. 15 Credits.
Notes: graded Pass/Fail.
Pre-requisites: EDUC 420.
Departmental clearance required prior to registration. Students must have completed at least three-fourths of the coursework for their major(s) and minor(s) before taking this course. All students must have a minimum overall GPA ≥ 2.8 in each of the following: major(s), minor(s) and Professional Education Program. All course grades in the student's major(s), minor(s) and the Professional Education Program must be ≥ 2.8. Washington State Patrol and FBI clearance must be current. For a complete description of activities and procedures associated with student teaching, please refer to the department’s Student Teaching Handbook.

EDUC 427. GENERAL STUDENT TEACHING K-12. 1-15 Credits.
Notes: graded Pass/Fail.
Pre-requisites: EDUC 420.
Departmental clearance required prior to registration. Students must have completed at least three-fourths of the coursework for their major(s) and minor(s) before taking this course. All students must have a minimum overall GPA ≥ 2.8 in each of the following: major(s), minor(s) and Professional Education Program. All course grades in the student's major(s), minor(s) and the Professional Education Program must be ≥ 2.8. Washington State Patrol and FBI clearance must be current. For a complete description of activities and procedures associated with student teaching, please refer to the department’s Student Teaching Handbook.

EDUC 430. ASSESSMENT IN EARLY CHILDHOOD EDUCATION. 5 Credits.
Pre-requisites: EDUC 200 or concurrent enrollment.
Using a variety of assessment practices, this course explores how to assess and guide the learning of young children ages birth to eight. Course content includes writing measurable goals and objectives, using data based decision making, understanding scores and communicating results, as well as ethical considerations and cultural bias in assessment.

EDUC 439. SEMINAR. 1-5 Credits.
Notes: repeatable for credit with different titles.
Content and titles will vary as education special topics are identified by faculty and students to study relevant and in-depth education concepts, knowledge and skills.

EDUC 440. SEMINAR IN ENVIRONMENTAL EDUCATION AND SUSTAINABILITY. 2 Credits.
This seminar provides depth in selected topics in sustainability and environmental education.

EDUC 450. METHODS II: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION. 4 Credits.
Pre-requisites: EDUC 410 and concurrent enrollment in EDUC 451.
This course introduces students to the practice of Intentional Teaching through the survey of curriculum content areas for early childhood education classrooms (e.g., math, science, social studies, music, creative arts).

EDUC 451. APPLICATIONS I: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION. 4 Credits.
Pre-requisites: EDUC 200, EDUC 410, EDUC 430 and concurrent enrollment in EDUC 450.
This is the first of two courses designed to provide opportunities for students to implement activities that increase their understanding of the Teaching Strategies Gold: Assessment Cycle in conjunction with implementation of early childhood curriculum content from ECE Methods I & II. Students are placed in high-quality ECE settings as determined by Washington state standards. 1-hour weekly seminar with 9 hour-week practicum experience required (3 hrs, 3 days a week).

EDUC 452. TOPICS IN CONTINUING EDUCATION. 1-5 Credits.
Notes: graded Pass/Fail.

EDUC 456. INSTRUCTIONAL MEDIA AND TECHNOLOGY. 3 Credits.
Pre-requisites: junior standing, Washington State Patrol/FBI fingerprinting clearance.
This course investigates how to promote student learning by integrating technology with content and instructional methods. Students explore the use of internet-associated learning tools, multimedia authoring tools, assessment tools and data-analysis tools. The ethical underpinnings associated with instructional media are discussed throughout the course as is student-associated research in the area of instructional media and technology.

EDUC 457. PRODUCTION OF INSTRUCTIONAL MATERIALS. 5 Credits.
Notes: course fee.
This course will use the latest computer technology for teachers in all areas, librarians and media specialists. Producing presentations, creating graphs and chartsing, producing classroom newsletter publications, scanning documents and pictures, importing clip art, making color transparencies, video production and, evaluation of web page design are covered in this class.

EDUC 458. APPLICATIONS II: BLENDED CURRICULUM IN EARLY CHILDHOOD EDUCATION. 4 Credits.
Pre-requisites: EDUC 451.
This is the second of two courses designed to provide opportunities for students to implement activities that increase their understanding of the Teaching Strategies Gold: Assessment Cycle in conjunction with implementation of early childhood curriculum content from ECE Methods I & II. Students continue in their previous placement from Applications I. This second course builds on content from Applications I with a focus on summarizing, planning and communicating results of child assessment using data-based decision making.
EDUC 470. DIVERSITY IN EARLY CHILDHOOD EDUCATION. 3 Credits.
Prerequisites: EDUC 200 or concurrent enrollment.
This course is designed to provide an overview of issues pertaining to diversity in blended early childhood education. Through readings, assignments, online discussions, and personal and professional reflections students learn about topics related to working with diverse young children and their families based on the principles of Anti-Bias Education.

EDUC 475. PROMOTING SOCIAL COMPETENCE AND GUIDING BEHAVIOR IN EARLY CHILDHOOD SETTINGS. 5 Credits.
Prerequisites: EDUC 410 and concurrent enrollment in either EDUC 451 or EDUC 461.
This course prepares students to build rapport with children and their families; create supportive learning environments; demonstrate positive social-emotional teaching strategies; understand the function of behavior in preschool settings; define specific guidance strategies; assess challenging behaviors; develop universal positive guidance plans; and communicate the need for positive, consistent team approaches to including children with challenging behaviors in early childhood classroom settings based on the Pyramid Model put forth by the Center for Social Emotional Foundations for Early Learning and the Technical Assistance Center on Social Emotional Intervention.

EDUC 478. SCIENCE IN THE ELEMENTARY SCHOOL. 4 Credits.
Prerequisites: Washington State Patrol form submitted.
Develops instructional competencies in elementary school science through extensive laboratory experiences.

EDUC 479. EARLY LITERACY. 3 Credits.
Prerequisites: must be taken concurrently with either EDUC 451 or EDUC 464 or instructor approval.
This course will support students in becoming familiar with developmental and theoretical foundations for early literacy development beginning at birth. Students will be introduced to approaches for implementing evidence- and research-based early literacy practices for students to succeed in creating and managing a literacy rich home-, classroom- and community environment. Students will utilize course content and application to be reflective decision makers and competent pre-professionals.

EDUC 485. INDIGENOUS EDUCATION. 5 Credits.
Cross listed: IDST 485.
Prerequisites: junior standing.
Satisfies: international studies university graduation requirement.
This course introduces students to the topic of indigenous education from a global perspective. Through readings, discussions, lectures and videos, students will examine the role education has played as an instrument of oppression, and how indigenous nations have restructured educational systems to reclaim their cultural identities and to empower themselves politically.

EDUC 489. FAMILY-CENTERED PRACTICES IN EARLY CHILDHOOD. 3 Credits.
Prerequisites: EDUC 200 or concurrent enrollment.
This course addresses the knowledge and skills necessary for working with families of young children, both with and without disabilities. The course is based on an understanding of family systems and the application of family-centered principles in early childhood education and home-based services. The course reviews the effect of adversity on families with young children and strategies for delivering family-centered curriculum and intervention. The course also focuses on understanding and measuring family outcomes. The three broad components of the course include (a) understanding foundations of theory and policy, (b) establishing effective partnerships, and (c) building family capacity through effective supports and service.

EDUC 490. LITERACY MAJOR CAPSTONE. 5 Credits.
Prerequisites: MTED 390, EDUC 304, EDUC 305, EDUC 310, EDUC 401, EDUC 411, EDUC 412, EDUC 416; EDUC 420; EDUC 494 must be taken concurrently.
Satisfies: senior capstone university graduation requirement.
This course allows teacher candidates in the Reading Major to analyze their practicum classroom experiences and to develop a philosophy for reading instruction. Students examine and identify the connections among literacy instruction and politics, the economy, school, society, social justice and how these impact young learners. Teacher candidates develop and implement a two-week reading curriculum for their placement practicum and review the Washington Teacher Competencies for the Reading Endorsement. This course must be taken concurrently with EDUC 494 Practicum for Reading Majors.

EDUC 490A. NATURAL RESOURCES. 4 Credits.
Prerequisites: senior standing.
Satisfies: senior capstone university graduation requirement.
This course allows pre-service teachers to team with natural resource community providers to actively engage in the work they do. Students develop inquiry activities for elementary classrooms around natural resource themes.

EDUC 494. LITERACY SEMINAR AND PRACTICUM. 6 Credits.
Notes: graded Pass/Fail.
Prerequisites: MTED 390, EDUC 338 or EDUC 339; EDUC 420; EDUC 490 must be taken concurrently. In this practicum for literacy majors, candidates are supervised while teaching literacy in a K–12 classroom setting. This course must be taken before student teaching. Students must spend 12 hours per week, five days per week, during literacy instruction in a public school classroom. This course must be taken concurrently with EDUC 490.

EDUC 495. PRACTICUM. 5 Credits.
Notes: graded Pass/Fail.
Prerequisites: permission of the instructor, department chair and college dean.
EDUC 495A. EDUCATION INTERNSHIP FOR EARLY CHILDHOOD EDUCATION. 4 Credits.
Prerequisites: permission of the instructor, department chair and college dean.
This course is part of the three-quarter field based requirement for students in the P-3 Certificate Program. Students spend 8 hours in the field and take this course concurrently with EDUC 498 (1) Seminar.
EDUC 496. EXPERIMENTAL COURSES. 1-5 Credits.

EDUC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-18 Credits.

Electives. Major in Reading (Elementary); must be a reading workshop.

EDUC 498. SEMINAR. 1-18 Credits.

EDUC 499. DIRECTED STUDY. 1-18 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

An opportunity for students with adequate background and experience to make intensive and independent study of some special problems in education.

EDUC 500. FOUNDATIONS OF EDUCATION/MIT. 4 Credits.

Introduction to the fundamentals of K-12 education, school systems and teaching. Role of schools in a democratic society is analyzed to help pre-service teachers become familiar with the reflective thinking necessary to be an effective classroom teacher, and become familiar with the historical and legal foundations of education as they apply to teaching.

EDUC 502. HISTORY OF AMERICAN EDUCATION. 4 Credits.

The economic, social, cultural and philosophical development of America and the resulting impact on schools.

EDUC 503. CONTEMPORARY EDUCATION IN OTHER SOCIETIES. 4 Credits.

Study of systems of education outside the United States.

EDUC 505. CURRENT ISSUES IN EDUCATION. 4 Credits.

Issues such as federal aid, teachers' tenure, teachers' salaries, the political control of education, indoctrination versus education, religious and public education, school-district reorganization, the community-centered school and academic freedom.

EDUC 506. EDUCATIONAL SOCIOLOGY. 4 Credits.

An analysis of American democratic ideology in relation to major social problems such as race, social stratification, leisure, population movements, family life, and the involvement of the public schools.

EDUC 507. PHILOSOPHY AND ORGANIZATION OF THE AMERICAN SCHOOL. 4 Credits.

Four philosophies in education will be studied. The implications of each for school organization and classroom instruction will be examined. Participants will be invited to analyze their beliefs and how these beliefs form into a coherent philosophy of education.

EDUC 508. UNDERSTANDING LITERACY INSTRUCTION K-8. 6 Credits.

Teacher candidates gain knowledge and understanding of reading processes, emergent through advanced literacy learning across the K-8 curriculum, lesson plan development based upon assessment, and how to manage classroom literacy instruction.

EDUC 510. CURRICULUM AND ASSESSMENT. 4 Credits.

In this course MIT students will gain understanding of best practice in curriculum development and assessment as well as enhanced competence in application of the practice.

EDUC 511. INTRODUCTION TO TEACHING WITH TECHNOLOGY PORTFOLIO. 1 Credit.

Notes: graded Pass/Fail.

This course focuses on planning and preparation of an initial draft of the Teaching with Technology Portfolio and should be taken early in the program. Learners will gain familiarity with the ISTE's National Educational Technology Standards (NETs) as they relate to their given context. Learners will take part in a needs assessment which will inventory areas of growth as they relate to instructional technologies and their effective use. Learners will set goals and identify areas of growth and exploration for instructional technologies. Learners will also become familiar with the components of the portfolio and the ways in which it can be delivered and will be evaluated.

EDUC 512. FINALIZING THE TEACHING WITH TECHNOLOGY PORTFOLIO. 1 Credit.

Notes: graded Pass/Fail.

This course focuses on final planning, preparation and delivery of the Teaching with Technology Portfolio and should be taken as one of the final courses. Learners further describe and document how they have effectively integrated their knowledge of instructional technology within a given context and aligned to ISTE's National Educational Technology Standards. Learners will review their initial instructional technologies needs assessment and reflect and share gains they have made. Learners will prepare and compile remaining artifacts and integrate them into the final portfolio. Once complete, the portfolio will be evaluated and presented in a public forum.

EDUC 517. THE CULTURE OF MIDDLE LEVEL SCHOOL. 3 Credits.

This course will promote awareness and understanding of middle school aged students, of the philosophy and organization of middle level schools and programs, and of developmentally appropriate instructional and classroom management strategies for teaching middle level learners.

EDUC 520. METHODS OF EDUCATIONAL RESEARCH. 4 Credits.

Required of all graduate students pursuing the master of education degree program unless an alternative research course is scheduled. It provides the background of research methods and techniques necessary for meeting the requirements of Education 600 or 601. The methods, tools, and strategies used in educational research, both quantitative and qualitative, will be explored. Continued level teacher certification research requirements may be met through this course.

EDUC 522. TRANSFORMATION OF LEARNING AND TEACHING. 4 Credits.

This course focuses on reforming and transforming the processes, perceptions and practices of learning and teaching by emphasizing diversity, social justice and equity. First, psychological principles underlying current educational culture will be analyzed. Second, reforming relationships, interactions and contexts for learning will be addressed through reflective practices, and third, rethinking and transforming connections, will be viewed through the lens of learners of diverse backgrounds.

EDUC 530. FOUNDATIONS OF EDUCATIONAL COMMUNICATION AND INFORMATION TECHNOLOGY. 4 Credits.

Survey of current issues, philosophical foundations, research, and history in the field of educational communication and information technology applicable to K-12 and adult learners.

EDUC 531. ELEMENTARY SCHOOL CURRICULUM. 4 Credits.

Curriculum practice and instructional materials most likely to improve instruction in the elementary school.

EDUC 532. SECONDARY SCHOOL CURRICULUM. 4 Credits.

Curriculum practice and instructional materials most likely to improve instruction in the secondary school.
EDUC 533. INSTRUCTIONAL SYSTEMS DEVELOPMENT. 4 Credits.
Advanced techniques and methods of developing and utilizing instructional systems. A multimedia correlated system will be designed, produced, organized, field tested and presented.

EDUC 534. GAMES, SIMULATION AND LEARNING. 4 Credits.
Effective learning environments strike a balance between anxiety and boredom. They are typically challenging hard- and enjoyable-fun or, "hard-fun." In this course you will explore how the instructional game method is an excellent vehicle for creating effective, "hard-fun" learning. You will investigate motivation as it relates to learning and the game method of instruction.

EDUC 538. MEDIA LITERACY FOR TEACHERS. 4 Credits.
Focuses on curricular and instructional development of resource-based skills. From examining model K-12 programs for skills in such areas as information, critical television viewing, media production, visual literacy, teachers will apply elements of instructional design and development to resource-based skills programs.

EDUC 539. SPECIAL TOPICS. 1-5 Credits.
Notes: may be graded Pass/No Credit.

EDUC 540. TEACHING AND LEARNING WITH MICROSOFT OFFICE. 4 Credits.
This course provides basic to intermediate skills for using Word, PowerPoint and Excel in classroom settings. You will learn how these technologies can be used to create instruction that meets the diverse needs of learners. Participants will have numerous opportunities to apply new skills and develop their own instructional products that support their curricular goals.

EDUC 542. LITERATURE STUDY IN THE ELEMENTARY AND MIDDLE SCHOOL. 4 Credits.
Advanced study of literature based teaching. Explores ways of building a literate classroom by connecting children and books with special ways on supporting students in becoming fluent readers.

EDUC 544. ADVANCED READING METHODS ACROSS THE CURRICULUM. 4 Credits.
A course designed to provide classroom teachers an opportunity to revisit current reading instruction methodology, examine new research including brain research impacting instruction, and explore meaningful ways in which reading instruction may be infused and integrated within content areas of the curriculum. Teacher assessment and student self-assessment as means to inform teaching and learning will be an additional focus of the course.

EDUC 551. SUPERVISION OF INSTRUCTION. 4 Credits.
The work of the teacher or supervisor in improving instruction.

EDUC 552. SUPERVISION OF STUDENT TEACHING. 4 Credits.
Preparation for positions as supervisors in laboratory schools and for public school teachers who supervise students in off-campus student teaching assignments.

EDUC 560. READING INQUIRY. 4 Credits.
This course centers on theoretical research into reading and literacy instruction. The course is based on the inquiry cycle, which will provide the organizational structure for class participation. Class sessions will include small group brainstorming and discussion, reading, explorations, browsing, workshop experiences, presentations, demonstrations and sharing.

EDUC 563. SCHOOL LAW (MIT). 2 Credits.
In this course MIT students will become familiar with applicable school law, preventive measures and knowledge of seeking legal advice.

EDUC 564. SCHOOL LAW. 4 Credits.
Court decisions and statutory law relating to the duties and powers of school officials and employees, compulsory school attendance, school census, child labor, control, and organization.

EDUC 565. LEADERSHIP FOR TODAY'S SCHOOLS. 4 Credits.
Focus on school leadership, developing with vision the knowledge and skills for strategically leading the planning, decision-making, communication, management, and change processes needed in 21st century schools and communities.

EDUC 566. LEADERSHIP IN SCHOOL-COMMUNITY RELATIONS. 4 Credits.
A problem-based exposure to the multi-dimensional role of school-community relations and communication in school districts. The course addresses the Public Relations domain of the NPBEA and WAC standards for the principalship.

EDUC 567. SCHOOL ADMINISTRATION. 4 Credits.
Students will examine the role of the principal, using the ISLLC Standards as a framework. They will prepare themselves for leadership through research, discussion activity and application. Relevant and practical topics will be used to create the curricular content of the course. Students will exit this course with knowledge and understanding of what to expect and how to respond as a new principal. This is a course where practicality and purpose will support those preparing for an instructional leadership role.

EDUC 570. ELEMENTARY SCHOOL SCIENCE PROGRAMS. 4 Credits.
Pre-requisites: teaching experience beyond student teaching, EDUC 478 or permission of the instructor.
The development of elementary school science programs and materials including the coordination of science instruction with other curricular areas.

EDUC 574. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. 3 Credits.
Place of social studies in the school program, the development of principles involved in the teaching of social studies.

EDUC 576. ADVANCED LITERACY METHODS. 4 Credits.
Advanced course with emphasis on models for reading and language arts integration. Cover total program: management, methods, materials and techniques.

EDUC 580. CURRICULUM DESIGN IN EARLY CHILDHOOD EDUCATION. 4 Credits.
Pre-requisites: EDUC 455 or permission of the instructor.
An in-depth study of the components of early childhood education curriculum, curriculum models and research regarding early childhood education programs.

EDUC 588. READINGS IN THE CURRICULUM. 1-4 Credits.
An advanced course for students wanting to study the current literature on school curriculum development and offerings. Students will develop an annotated bibliography from a specific area of school curriculum.

EDUC 590. CRITICAL AND SOCIAL LITERACIES. 4 Credits.
An advanced course for students wanting to study current literature on literacy as practiced in a variety of social contexts, as evaluated through a number of critical perspectives. Instructional implications will be highlighted so that students will develop reflective and sound classroom practice.
EDUC 591. INSTRUCTIONAL FOUNDATIONS AND INTERVENTIONS FOR LITERACY DIFFICULTIES. 4 Credits.
This course is designed to examine the causes and correlates of individual differences in reading ability. A number of specialized, intensive approaches for the improvement of the literacy skills will also be examined.

EDUC 594. PSYCHOLOGY OF LITERACY. 4 Credits.
Application of the findings of psychology to understanding the reading, writing, and communication processes and the teaching of literacy.

EDUC 595. SEMINAR IN LITERACY. 4 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Course will help develop critical understanding of the reading process through a scholarly exploration of research related to literacy education. The instructional implications of research will be highlighted to help students develop theoretically sound classroom practice.

EDUC 596. EXPERIMENTAL COURSE. 1-6 Credits.

EDUC 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-6 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

EDUC 598. SEMINAR IN EDUCATION. 1-12 Credits.

EDUC 599. DIRECTED STUDY. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Students with adequate background and experience make intensive and independent study of some special problems in education. Students should make arrangements through their graduate adviser.

EDUC 600. THESIS. 1-8 Credits.
Notes: may be graded Pass/No Credit.
Pre-requisites: EDUC 520; permission of the instructor, department chair and college dean. Independent research study under the direction of a graduate advisory committee.

EDUC 601. RESEARCH REPORT. 1-6 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
Enrollees should have completed a rough draft prior to entering the course. Research projects to be developed and written by graduates.

EDUC 695. INTERNISHIP. 1-18 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
Practical, on-the-job experience for specialized school personnel planned cooperatively by a school district and the university. Students are selected for this experience by the university and the district in which the student is working. To register, students must make application to the program advisor during May of the previous year.

EDUC 696. COLLEGE TEACHING INTERNISHIP. 1-5 Credits.
Notes: graded Pass/No Credit.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and instructional aids, conferences with students, experience in classroom instruction and student course evaluation.

EDUC 697. INTERNISHIP IN EDUCATION. 1-15 Credits.
EENG 331. MICROELECTRONICS II. 5 Credits.
Pre-requisites: EENG 330.
This course is the second in the characterization, modeling and application of semiconductor devices in the context of analog integrated circuits. The emphasis is on the metal-oxide-semiconductor (MOS) transistor. Topics include differential amplifiers, frequency response and feedback effects.

EENG 350. ENERGY SYSTEMS. 5 Credits.
Pre-requisites: EENG 210.
This course provides an introduction to the different energy sources, methods of electric energy conversion, the electric power system, transformers and electrical machines.

EENG 360. HARDWARE DESCRIPTION LANGUAGES. 5 Credits.
Pre-requisites: EENG 160.
This course introduces methodologies and computer-aided design (CAD) tools for the design of complex electronic systems. The emphasis is on high-level description languages and their use for specifying, designing, simulating and synthesizing digital very large scale integration (VLSI) circuits in MOS (metal-oxide-semiconductor) technologies. Theoretical knowledge will be complemented by hands-on use of several commercial CAD tools.

EENG 383. APPLIED STOCHASTIC PROCESSES. 4 Credits.
Pre-requisites: MATH 163 or permission of the instructor and must be taken concurrently with EENG 388.
This course provides an introduction to the basic concepts of stochastic processes and their application to engineering problems. Topics include analysis of continuous and discrete random signals and systems, as well as modern estimation techniques.

EENG 388. STOCHASTIC PROCESSES LAB. 1 Credit.
Pre-requisites: MATH 163 or permission of the instructor and must be taken concurrently with EENG 383.
This laboratory course introduces basic concepts of stochastic processes and their application to engineering problems.

EENG 401. ENGINEERING APPLIED ELECTROMAGNETICS. 5 Credits.
Pre-requisites: EENG 210, MATH 241.
This course provides students with the technical basis to analyze electromagnetic applications systems. Topics include waves and phasors, vector analysis, electrostatics, magnetostatics, Maxwell’s equations for time-varying fields and plane wave propagation.

EENG 415. INTRODUCTION TO COMPUTER COMMUNICATION NETWORKS. 5 Credits.
Pre-requisites: junior standing.
Fundamentals of data communication, telephone/cellular/computer networks, layered network architecture, OSI model, data link layer functions and protocols including ARQ, network layer functions and protocols including IP, transport layer functions and protocols including TCP. Basic MATLAB programming experience is necessary for this course.

EENG 420. DIGITAL SIGNAL PROCESSING. 5 Credits.
Pre-requisites: EENG 321.
This course provides an introduction to digital signal processing. Convolution, time invariance and stability of discrete-time systems are presented. In addition, various signal processing techniques such as Z-transform, discrete Fourier transform (DFT) and fast Fourier transform (FFT) are studied. Time and frequency domain techniques for designing and applying infinite impulse response (IIR) and finite impulse response (FIR) digital filters are introduced.

EENG 425. PRINCIPLES OF DIGITAL IMAGE PROCESSING. 5 Credits.
Pre-requisites: EENG 321.
Image representation, color spaces, image filtering and enhancement, image transforms and image/video coding.

EENG 430. CMOS DIGITAL INTEGRATED CIRCUITS DESIGN. 5 Credits.
Pre-requisites: EENG 160; EENG 331.
This course provides students with the theoretical and practical knowledge required for analyzing and designing digital integrated circuits and systems in complementary metal-oxide-semiconductor (CMOS) technology. Lab includes hands-on use of a variety of state-of-the-art computer-aided design (CAD) tools and design techniques.

EENG 435. ANALOG INTEGRATED CIRCUITS DESIGN. 5 Credits.
Pre-requisites: EENG 331.
This course provides students with the theoretical and practical knowledge required for analyzing and designing analog integrated circuits and systems in CMOS and BJT technologies. Topics include operational amplifier design, biasing and reference circuits, stability, and selected applications of analog circuits (e.g. filters, comparators, data converters, transceiver blocks).

EENG 440. DIGITAL COMMUNICATION SYSTEMS. 5 Credits.
Pre-requisites: EENG 321, EENG 383.
This course provides students with a solid background in modern digital communication systems. Random processing is in the realm of communication theory. Common digital modulation and demodulation techniques are presented. Other topics include bandpass transmission of binary data, coherent/noncoherent communications, intersymbol interference and equalization.

EENG 442. MOBILE COMMUNICATIONS. 5 Credits.
Pre-requisites: EENG 321 and EENG 383.
This course covers antennas and propagation, signal encoding techniques; spread spectrum, coding and error control, cellular and wireless control.

EENG 450. POWER SYSTEMS ANALYSIS. 5 Credits.
Pre-requisites: EENG 350.
The course provides students with the ability to analyze power systems from technical and economic perspectives. It includes symmetrical components, calculation of line parameters, power flow control, representation of transmission lines and power components.

EENG 452. PROTECTIVE RELAYS. 5 Credits.
Pre-requisites: EENG 450.
This course provides students with the technical basis to analyze and design protection for power systems. Topics include per unit and phasors, symmetrical components, relay input sources, protection fundamentals, system grounding principles and protection of power system components.

EENG 460. COMPUTING SYSTEMS: ORGANIZATION AND DESIGN. 5 Credits.
Pre-requisites: CSCD 255, EENG 360.
This course provides the theoretical and practical knowledge required for analyzing and designing complex computing systems. Topics include computer performance, MIPS assembly language, integer and floating point arithmetic, designing a processor, pipelining and memory hierarchies. Assembly programming and design using VHDL are offered in weekly labs.
EENG 461. EMBEDDED SYSTEM DESIGNS. 5 Credits.
Pre-requisites: EENG 160 or permission of the instructor.
This course provides students with the theoretical and practical knowledge required for analyzing and designing embedded computing systems. The key challenge of embedded systems is to optimize the various design metrics and to assess the impact that the organization and interfacing of hardware/software components have on system performance. Hands-on experience using various hardware, such as Field Programmable Gate Arrays (FPGA) and microcontrollers, will be offered in weekly labs.

EENG 470. CONTROL SYSTEMS. 5 Credits.
Pre-requisites: EENG 321.
This course reviews basic topics such as transfer function, step response and stability conditions. Other topics include feedback systems, analysis techniques such as root-locus analysis, transient and steady-state response analyses and frequency response analysis are studied. In addition, state-space analysis techniques are explained within the context of state-space system models. Analysis and design of proportional, integral, and derivative (PID), PI and PD controllers are presented.

EENG 471. DIGITAL CONTROL SYSTEMS. 5 Credits.
Pre-requisites: EENG 470.
This course provides students with the technical basis to understand and analyze digital control systems. Topics include frequency response, modeling digital control systems, steady-state error, stability, Z-domain design and state-space models. An introduction to Lyapunov techniques is presented.

EENG 490A. SR CAPSTONE: DESIGN LAB I. 2 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
This course will simulate the industrial environment, where students will have to work in a team to solve a real world problem, from design to implementation. Team dynamics will be strictly monitored and each student's unique skills will be utilized in different stages of the design process. Dealing with problems typical of a team environment will result in an invaluable learning experience both in the professional and civic lives of the students.

EENG 490B. SR CAPSTONE: DESIGN LAB II. 3 Credits.
Pre-requisites: EENG 490A.
Satisfies: senior capstone university graduation requirement.
See course description for EENG 490A.

EENG 491. SENIOR PROJECT. 1-6 Credits.
Pre-requisites: permission of instructor.
Independent and/or group study and implementation of a design and development project. (variable time)

EENG 495. INTERNSHIP. 1-6 Credits.
Notes: graded Pass/Fail.
Pre-requisites: junior or senior status and permission of the instructor, department chair and dean.

EENG 496. EXPERIMENTAL COURSE. 1-5 Credits.

EENG 498. SEMINAR. 1-6 Credits.
Seminar.

EENG 499. DIRECTED STUDY. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Designed for students wanting to pursue a subject beyond the scope of regular courses.

EENG 599. INDEPENDENT STUDY. 1-5 Credits.
Independent Study.

English (ENGL)

ENGL 100. FUNDAMENTALS OF ENGLISH COMPOSITION. 5 Credits.
Notes: graded Pass/No Credit; does not count toward the 180 credit requirement.
Pre-requisites: placement based on EWU writing placement test results or through General Advising.
Provides opportunities for students to acquire familiarity with the standard written language of college-educated Americans. Employs lectures, small group activities, tutoring and counseling to encourage and lead students to practice a variety of language skills. This course prepares students for ENGL 101.

ENGL 101. COLLEGE COMPOSITION: EXPOSITION AND ARGUMENTATION. 5 Credits.
Pre-requisites: ENGL 100, Writing Placement Test or General Advising.
Satisfies: university competencies, writing.
Provides opportunities for students to develop and enhance their written communication skills. Stresses the organization, development and support of ideas and perspective in exposition and argumentation as public discourse, familiarization with library resources and application of the rules and conventions of standard American English.

ENGL 111. WRITING FOR ACADEMIC PURPOSES. 5 Credits.
Cross listed: ELIC 111.
An integrated skills course to develop writing and grammar fluency in a variety of writing modalities through reading, writing and discussion to prepare students for the multifaceted demands of academic writing.

ENGL 112. COMPOSITION FOR MULTILINGUAL STUDENTS. 5 Credits.
Notes: students must earn a minimum grade ≥2.0 before being allowed to proceed to ENGL 101.
A course designed for the international student and those students whose native language is not English. Content is adapted to the needs of students in such areas as idiom, usage, reading comprehension and composition, as well as library activities.

ENGL 170. INTRODUCTION TO LITERATURE. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 1, literature.
An examination of literary approaches in human experience including short fiction, poetry and drama. Principal attention to the elements that make up literature, with supporting discussion of ideas, attitudes, problems and values.

ENGL 196. EXPERIMENTAL COURSE. 1-2 Credits.

ENGL 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ENGL 199. INDEPENDENT STUDIES. 1-5 Credits.

ENGL 201. COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION. 5 Credits.
Pre-requisites: ENGL 101, Writing Placement Test or general advising.
Satisfies: university proficiencies, writing.
Stresses research skills, analytical writing, logic and other skills necessary to comprehend, synthesize and respond intelligently to academic discourse. Practices source evaluation and documentation across the disciplines. A special study unit emphasizing effective use of library resources is included.
ENGL 270. INTRODUCTION TO FICTION. 5 Credits.
Pre-requisites: ENGL 101; ENGL 201 recommended.
The basic elements of fiction. Through class discussions and writing assignments, students analyze, interpret, and evaluate individual short stories and a novella which are broadly representative of a variety of historical periods and narrative genres.

ENGL 271. INTRODUCTION TO POETRY. 5 Credits.
Pre-requisites: ENGL 101; ENGL 201 recommended.
The basic elements of poetry. Presentation similar to ENGL 270.

ENGL 273. CRITICAL METHODOLOGIES. 5 Credits.
Pre-requisites: ENGL 201.
This course is an introduction to the major ideas and questions in literary theory and criticism from Plato to the present.

ENGL 296. EXPERIMENTAL COURSE. 1-5 Credits.

ENGL 299. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Special studies in English or composition. Such studies will vary according to faculty and student interest.

ENGL 309. GRAMMAR FOR PROFESSIONAL WRITERS. 5 Credits.
Cross listed: JRNM 309, TCOM 309.
Pre-requisites: ENGL 201.
Many professionals continue to struggle with grammar and usage rules throughout their careers. In this course, students will refresh and improve their knowledge of English grammar, style and usage rules. They will develop confidence in using correct punctuation, capitalization and verb forms, and learn how to create and employ different types of sentence structures, becoming proficient at writing clear, correct sentences to communicate effectively with a variety of audiences.

ENGL 315. TOPICS IN LITERATURE AND CULTURE. 5 Credits.
Notes: may be repeated for credit if taken with a different topic.
Pre-requisites: ENGL 201.
A thematically organized course dealing with literary and cultural topics as they are reflected in literature. Some representative topics are the following: The American Dream in Literature; The Image of Women in American Pioneer Literature; and The Colonial Experience in Literature.

ENGL 323. A GLOBAL VIEW THROUGH CHILDREN'S LITERATURE. 5 Credits.
Cross listed: EDUC 323.
Satisfies: international studies university graduation requirement.
By reading and discussing a variety of children’s literature titles across several interrelated thematic units, students will examine cultural constructs, gain familiarity with international cultures, work toward empathy for other peoples and practice a critical reading stance about stories from around the world. Coursework will include papers, journals, large and small group discussions and presentations.

ENGL 340. SURVEY OF BRITISH LITERATURE I. 5 Credits.
Pre-requisites: ENGL 201 and ENGL 271.
This course covers the history of British Literature from the Anglo-Saxon period to Milton, focusing on works of representative authors and examining changes in literary forms and conceptions of culture and society.

ENGL 341. SURVEY OF BRITISH LITERATURE II. 5 Credits.
Notes: English majors must have grades ≥2.5; non majors must have permission of the instructor.
Pre-requisites: ENGL 201 and ENGL 271.
This course covers the history of British literature beginning with the Restoration and ending with the Romantics, focusing on works of representative authors and examining changes in literary forms, including the beginnings of narrative form, as well as conceptions of culture and society.

ENGL 342. SURVEY OF BRITISH LITERATURE III. 5 Credits.
Notes: English majors must have grades ≥2.5; non majors must have permission of the instructor.
Pre-requisites: ENGL 201 and ENGL 271.
This course covers the history of British literature beginning with the Victorians and ending with the present, focusing on works of representative authors and examining changes in literary forms, including the novel, as well as conceptions of culture and society.

ENGL 343. SURVEY OF AMERICAN LITERATURE I. 5 Credits.
Notes: English majors must have grades ≥2.5; non majors must have permission of the instructor.
Pre-requisites: ENGL 201 and ENGL 271.
This course covers the history of American literature from the origin narratives to Transcendentalism, focusing on works of representative authors and examining changes in literary forms, including the short story, and in conceptions of American culture and society.

ENGL 344. SURVEY OF AMERICAN LITERATURE II. 5 Credits.
Notes: English majors must have grades ≥2.5; non majors must have permission of the instructor.
Pre-requisites: ENGL 201 and ENGL 271.
This course covers the history of American literature from the civil war to the present, focusing on works of representative authors and examining changes in literary forms including the short story, and in conceptions of American culture and society.

ENGL 350. SHAKESPEARE. 5 Credits.
Notes: English majors must have grades ≥2.5; non majors must have permission of the instructor.
Pre-requisites: ENGL 201 and ENGL 271.
Reading and interpretation of the principal comedies, histories, tragedies, and sonnets of Shakespeare; usually includes intensive study of one play.

ENGL 360. LANGUAGE STRUCTURE AND USE. 5 Credits.
Pre-requisites: ENGL 201.
The nature and function of language; approaches, concepts, component areas of linguistics.

ENGL 380. SURVEY OF NATIVE AMERICAN LITERATURE. 5 Credits.
Cross listed: IDST 380.
Pre-requisites: ENGL 201 or permission of instructor.
Satisfies: cultural and gender diversity university graduation requirement.
Designed to introduce students to specific examples of narrative, ceremonial, ritualistic, religious and secular literatures from the oral traditions of Indian Nations in North America and South America. Also introduces students to contemporary genres (i.e., poetry, the short story, the novel and drama) as they emerge from the oral traditions, with the specific purpose of articulating the continuity as reflected in literary genres.
ENGL 381. CONTEMPORARY AFRICAN AMERICAN LITERATURE. 5 Credits.
Pre-requisites: ENGL 201.
Major African American literature of the 20th century: fiction, poetry, essay, autobiography and drama.

ENGL 382. STUDIES IN EPIC FANTASY. 5 Credits.
Pre-requisites: ENGL 201.
Selected works by Tolkien, Lewis, Eddison, Carter, Cabell, and others, with emphasis on the function of fantasy and its statements about contemporary society and the human imagination. Texts selected vary according to student interest.

ENGL 384. FOLKLORE. 5 Credits.
Pre-requisites: ENGL 201.
Surveys the nature of folklore in its theories and practices, with special attention to the function of the folk imagination. Topics include the oral tradition possessed by every group, widespread folk practices and beliefs, and the methods of their collection and study.

ENGL 385. MYTHOLOGY. 5 Credits.
Pre-requisites: ENGL 201.
A survey of classical Greek myths, with special attention to the stories used in literature, and an introduction to comparative mythology.

ENGL 387. LITERATURE OF THE BIBLE. 5 Credits.
Pre-requisites: ENGL 201.
Studies the literature of the Bible, both Old and New Testaments, in its historical, cultural, and linguistic settings through selected readings.

ENGL 389. WOMEN, LITERATURE AND SOCIAL CHANGE. 5 Credits.
Pre-requisites: ENGL 201.
Satisfies: cultural and gender diversity university graduation requirement. Examines fictional images of women as these images reflect the changing roles and status of women from Greece to present, focusing on the 19th and 20th centuries.

ENGL 395. FIELDWORK. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ENGL 396. EXPERIMENTAL COURSE. 1-5 Credits.

ENGL 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ENGL 398. SEMINAR. 1-5 Credits.

ENGL 399. DIRECTED STUDY. 1-5 Credits.

ENGL 400. WOMEN AND MEN IN LITERATURE. 1 Credit.
Cross listed: WMST 400.
This course teaches the integration of women authors, the ideas of men writing about women and ideas interesting to women in the study of literature. We will deal with textbook selections and a comparative treatment of women and men in a literature survey course. The course will provide a feminist approach and review the literature on gender balance.

ENGL 408. THE COMPOSITION PROCESS. 5 Credits.
Pre-requisites: ENGL 201.
Study and analysis of the cognitive steps taken and of the general process usually followed when a person writes clearly and effectively. Designed especially for those who are interested in the teaching of composition.

ENGL 421. SPECIAL TOPICS IN CHILDREN'S LITERATURE. 4 Credits.
Notes: non-majors must have permission of the instructor.
Pre-requisites: English majors must have grades ≥2.5 in ENGL 201, ENGL 270 and ENGL 271.
EagleNET will indicate specific topic to be considered. Offerings include picture books, fantasy literature, myths and folk tales, minority groups and new trends in children's literature.

ENGL 436. SEMINAR IN LITERATURE I: MAJOR AUTHORS. 5 Credits.
Pre-requisites: Three of the five English survey courses. Two of ENGL 340, ENGL 341, ENGL 342 and either ENGL 343 or ENGL 344. This seminar course, through extensive reading and writing as well as student presentations, focuses on the work of major authors from either British, American, Commonwealth, or World literature. It considers their biography and the scope, influence, and development of their achievement, as well as the stature of their principal works. The choice of authors will vary with the instructor.

ENGL 437. SEMINAR IN LITERATURE II: STUDIES IN GENRE. 5 Credits.
Pre-requisites: Three of the five English survey courses. Two of ENGL 340, ENGL 341, ENGL 342 and either ENGL 343 or ENGL 344. This seminar course, through extensive reading and writing as well as student presentations, focuses on a genre or genres in British, American, Commonwealth and/or World literature. Genres studied may include, but are not limited too, nonfiction, prose, poetry, film, drama and electronic media. The choice of genres will vary with the instructor.

ENGL 438. SEMINAR IN LITERATURE III: LITERARY ERAS. 5 Credits.
Pre-requisites: Three of the five English survey courses. Two of ENGL 340, ENGL 341, ENGL 342 and either ENGL 343 or ENGL 344. This seminar course, through extensive reading and writing as well as student presentations, focuses on a specific era in literary history. The selection of literary era will vary with the instructor.

ENGL 439. SEMINAR IN LITERATURE IV: SPECIAL TOPICS. 5 Credits.
Pre-requisites: Three of the five English survey courses. Two of ENGL 340, ENGL 341, ENGL 342 and either ENGL 343 or ENGL 344. This seminar course, through extensive reading and writing as well as student presentations, focuses on a thematic issue in either British, American, Commonwealth, or World literature. These courses will explore the continuity of ideas across literary periods and cultures. The choice of topics will vary with the instructor.

ENGL 450. SPECIAL TOPICS IN SHAKESPEARE. 5 Credits.
Notes: may be repeated, the particular subject matter is described by the added wording in the title and can be substituted for ENGL 436.
Pre-requisites: ENGL 340 and ENGL 350.
This seminar course draws upon special topics such as dark and light comedy, the tragic heroes, Shakespeare history, etc., at the choice of the instructor.

ENGL 451. CHAUCER. 5 Credits.
Pre-requisites: ENGL 340.
This course involves reading and interpretation of the chief poetry of Geoffrey Chaucer. This course can be substituted for ENGL 436.

ENGL 459. GRAMMAR FOR TEACHERS. 5 Credits.
Pre-requisites: ENGL 201.
Major features of English grammar. Course covers word formation; part of speech identification; and the analysis of phrases, clauses, and sentences.

ENGL 460. MODERN GRAMMAR. 5 Credits.
Pre-requisites: ENGL 201 and ENGL 459; ENGL 360 is recommended. Analysis of major syntactic rules of English from the standpoint of transformational grammar.
ENGL 461. SURVEY OF PSYCHOLINGUISTICS. 3 Credits.
Pre-requisites: ENGL 360.
A survey of psycholinguistic process: language comprehension, production, and acquisition.

ENGL 464. GRAMMAR AND COMPOSITION. 5 Credits.
Pre-requisites: ENGL 459 or equivalent knowledge of traditional grammar.
Analysis of basic writing problems (grammatical and punctuation errors, and syntactic immaturity) in the writing of secondary students and the development of remediation materials and strategies.

ENGL 468. HISTORY OF ENGLISH LANGUAGE. 5 Credits.
Pre-requisites: ENGL 201; ENGL 360 is recommended.
Origins and development of the English language from prehistoric times to the present.

ENGL 469. LITERATURE OF THE PNW. 5 Credits.
Cross listed: CRWR 469.
Notes: this course can be substituted for ENGL 439.
Pre-requisites: ENGL 343 or ENGL 344.
This course is a survey of Northwestern literature from 1800 to the present time, including representative exploration journals as well as more recent works by such writers as Richard Hugo, James Welch, Carolyn Kizer and Ursula LeGuin. Addresses questions of geography and regional culture.

ENGL 489. LGBT WRITERS: THEIR LIVES AND THEIR WORKS. 5 Credits.
Cross listed: WMST 489.
Pre-requisites: ENGL 270 or WMST 101/HUMAN 101 or WMST 310/HUMAN 310 or WMST 410/HUMAN 410.
This course examines the lives and works of Lesbian, Gay, Bisexual and Transgendered (LGBT) writers as well as the historical and social contexts of their writing. Genres may include LGBT fiction, nonfiction, auto-ethnography, letters, diaries, film, critical accounts of authors' work, social networks and other artifacts. The readings focus on the lived experiences of the writers and their characters while (1) identifying "relevant gaps" within the traditional literary canon, (2) questioning "existing modes;" (3) examining "connections among societal structures such as gender, race, class, age, and sexuality that contribute to (LGBT) oppression" and (4) connecting theory to practice.

ENGL 490. SENIOR CAPSTONE. 5 Credits.
Satisfies: senior capstone university graduation requirement. See your major department adviser for the appropriate section number.

ENGL 493. TEACHING LITERATURE TO ADOLESCENTS. 5 Credits.
Pre-requisites: English majors must have grades ≥2.5 in ENGL 201, ENGL 270 and ENGL 271 or ENGL 273; non-majors must have permission of the instructor.
The course involves the study and analysis of adolescent literature and of methods for teaching literature to various grade levels. It is designed primarily for those who will be teaching and dealing with adolescent responses to literature.

ENGL 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.
Notes: may be repeated.
Pre-requisites: permission of the instructor, department chair and college dean.
A minimum of 20 hours work per week as a student-intern in a cooperating business, industry or agency. Students may earn from 5–15 credits.

ENGL 496. TUTORING INTERNSHIP. 1-3 Credits.
Notes: graded Pass/Fail.

ENGL 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ENGL 498. SEMINAR. 1-5 Credits.
Pre-requisites: Three of the five English survey courses.
Two of ENGL 340, ENGL 341, ENGL 342 and either ENGL 343 or ENGL 344.

ENGL 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent study under faculty direction, adapted to individual needs of the students.

ENGL 503. INFORMATION DESIGN. 5 Credits.
Pre-requisites: graduate standing or permission of the instructor.
A study of the convergence of the visual and the verbal in professional communication, examining the variable expressive power of text and graphics both individually and in conjunction. Particular attention will be paid to the crafting of information for the World Wide Web. Students will study theories of information design and then apply them in individual and collaborative projects.

ENGL 504. INSTRUCTIONS AND PROCEDURES. 5 Credits.
Pre-requisites: graduate standing.
As part of this course, students complete all the course work for TCOM 404. In TCOM 404, students will learn the art and practice of how to write, design, test and deliver instructions and procedures. In addition to the requirements for TCOM 404, graduate students completing ENGL 504 will study theoretical concepts related to instructions and procedures. Concepts may include interactivity, designing user experience, the role of new media and the relationship of technology and society.

ENGL 507. PROPOSAL WRITING. 5 Credits.
Investigation of funding sources, use of government documents for research, and evaluation of submitted proposals are among the areas covered. Emphasis is on clear, concise writing of individualized student projects.

ENGL 509. EDITING IN TECHNICAL COMMUNICATION. 5 Credits.
Pre-requisites: ENGL 459.
This course develops the principles and practices of technical editing. Students will learn how to copy, edit and proofread a variety of technical and professional documents, using standard symbols and conventions. Students will also learn to use style sheets to track emendations, and they will gain an understanding of the responsibilities of an editor to make texts effective and usable. The course is taught in conjunction with TCOM 409, and graduate students are expected to complete additional work beyond that required for the undergraduate course.

ENGL 511. COMPOSITION PEDAGOGIES: THEORIES AND PRACTICES. 5 Credits.
Pre-requisites: graduate standing.
In this course emphasis is placed on the students' own reading and writing processes as they summarize, analyze and synthesize composition theories and practices. First-year teaching assistants and first-year alternate teaching assistants are required to enroll in the course winter quarter.
ENGL 520. SEMINAR IN RESEARCH METHODS AND DESIGN. 5 Credits.
This course examines a range of research methods needed to write a thesis or research project. Students will learn how to design and conduct research related to their discipline. The course includes an introduction to creating literature reviews, conducting peer reviews, and citing references. Students will also learn how to evaluate sources, using databases to access print and online journals. Disciplinary focus of seminar will vary. Students must select a seminar appropriate to their emphasis.

ENGL 536. GRADUATE SEMINAR IN LITERATURE I: MAJOR LITERARY FIGURES. 5 Credits.
Pre-requisites: graduate standing.
This graduate seminar will focus on the work of major figures from British, American, or world literature, considering their biography, the scope and development of their achievement, and the stature of their principal works. May be taken more than once; subject matter described by the added wording in the title.

ENGL 537. GRADUATE SEMINAR IN LITERATURE II: GENRE STUDIES. 5 Credits.
Notes: may be repeated.
Pre-requisites: graduate standing.
This graduate seminar, through extensive reading and writing as well as student presentations, focuses on a genre or genres in British, American, and/or World literature. Genres studied may include, but are not limited to, nonfiction, prose, poetry, film, drama and electronic media. The choice of genres will vary with the instructor.

ENGL 538. GRADUATE SEMINAR IN LITERATURE III: LITERARY ERAS. 5 Credits.
Notes: may be repeated.
Pre-requisites: graduate standing.
This graduate seminar, through extensive reading and writing as well as student presentations, focuses on a specific era in literary history. The selection of literary era will vary with the instructor.

ENGL 539. GRADUATE SEMINAR IN LITERATURE IV: SPECIAL TOPICS. 5 Credits.
Notes: may be repeated.
Pre-requisites: graduate standing.
This graduate seminar course, through extensive reading and writing as well as student presentations, focuses on a thematic issue in British, American, or World literature. The course will explore the continuity of ideas across literary periods and cultures. The choice of topics will vary with the instructor.

ENGL 555. CONTEMP COMPOSITION THEORY. 5 Credits.
Pre-requisites: ENGL 511 or ENGL 408.
This course will provide students with the historical frameworks for understanding composition theory, acquaint them with major theories and theorists, and enable them to draw from contemporary theory for scholarship and pedagogy.

ENGL 560. APPLIED LINGUISTICS. 5 Credits.
Notes: Students do not need to take ENGL 360 or ENGL 459, but such courses provide a good beginning point for ENGL 560 and are recommended. It is also recommended that students take ENGL 560 prior to registering for ENGL 580.
Foundational linguistics needed for those teaching or planning to teach English to speakers of other languages in the U.S. and abroad. Content includes basic syntax, phonology, semantics, morphology and pragmatics. Through contrastive analysis, students will demonstrate an understanding of how to apply linguistic theory to create materials and develop approaches to teach sentence structure, pronunciation, word meanings, word parts and speech acts.

ENGL 564. PEDAGOGICAL GRAMMAR AND COMPOSITION. 5 Credits.
This course includes analysis of grammar, structure, and usage of American English and varieties of World Englishes with a focus on error recognition, analysis, and correction within the context of learners’ writing. This is a writing-intensive course for English teachers who must demonstrate mastery of written English, edit their own writing, and develop teaching materials for a variety of levels and settings. Issues of writers’ voice, heritage, region, first language, dialect, and identity are addressed.

ENGL 566. TECHNICAL COMMUNICATION AND ESP: PRACTICE, THEORY AND PEDAGOGY. 5 Credits.
Pre-requisites: graduate standing.
This course introduces students to major theories and practices influencing the teaching of technical communication and ESP (English for Specific Purposes). Students review components of standard curriculum, conduct need analysis for developing curriculum, and research genres and practices of professional communication to develop course materials. In addition, students practice problem-based learning and pedagogy.

ENGL 570. SEMINAR IN TEACHING LITERATURE. 5 Credits.
Pre-requisites: graduate standing.
This course gives students in the Literature program emphasis practical as well as theoretical preparation for teaching literature. Students meet with the instructor once a week and also attend ENGL 270 or ENGL 271. In the lower-division class, students at first observe and then make presentations and then take over some of the teaching. The weekly meetings involve discussion of assigned pedagogy readings and discussion of experiences in class.

ENGL 571. ADVANCED LITERARY THEORY. 5 Credits.
Pre-requisites: graduate standing.
A study of major approaches in 20th century literary criticism and theory with emphasis on developments since the 1950s. Previous work in this area will be assumed.

ENGL 573. HISTORY OF RHETORIC. 5 Credits.
A survey of major rhetorical traditions from classical times to the present. Major emphasis will be placed on the decline of invention in classical rhetoric and the rise of new rhetorical systems in the 18th and 20th centuries.

ENGL 575. CONTEMPORARY RHETORICAL THEORIES. 5 Credits.
In-depth survey of contemporary rhetorical theories - e.g., developmental rhetoric, process rhetoric, new romantic rhetoric, conceptual rhetoric, neo-classical rhetoric.
ENGL 580. SECOND LANGUAGE ACQUISITION. 5 Credits.
Notes: completion of ENGL 560 is recommended.
Pre-requisites: graduate standing.
This course includes the study of theories of language acquisition and development of reading, writing, speaking and listening in a foreign/second language. First language acquisition will also be discussed briefly.

ENGL 581. SECOND LANGUAGE CURRICULUM DESIGN AND ASSESSMENT. 5 Credits.
Pre-requisites: this is a research-based course, which has no official prerequisite, though some ESL background is highly recommended.
A course directed at prospective ESL teachers and curriculum designers which presents and reviews various current forms of curriculum at all levels (K-13) with an emphasis on secondary and post-secondary, both collegiate and non-collegiate settings.

ENGL 582. MODERN LANGUAGE METHODOLOGY. 5 Credits.
Examines current theories, methods, and research in teaching English and other languages as foreign or second languages. Students may do research in languages other than English. Some foreign language experience would be very helpful, though not necessary.

ENGL 590. RHETORIC AND TECHNICAL COMMUNICATION CAPSTONE. 3 Credits.
Notes: students who do not pass the comprehensive exam may retake the test no more than one additional time.
Pre-requisites: completion of all CORE courses: ENGL 511, ENGL 520, ENGL 564, ENGL 568, ENGL 573 or ENGL 575, ENGL 695D.
This course enriches students’ skills in synthesizing, responding to, and applying theoretical work. Students will independently study a variety of foundational works and use those sources to formulate arguments for conference-quality presentations or papers. The course will also familiarize students with the application processes for doctoral programs and teaching or professional positions.

ENGL 595. PRACTICUM IN PUBLIC SCHOOLS. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
The development, reinforcement, integration, and application of content gained in previous and concurrent graduate courses. This course is intended for students employed as teachers in the elementary or secondary classroom.

ENGL 596. EXPERIMENTAL COURSE. 1-5 Credits.

ENGL 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

ENGL 598. SEMINAR IN LANGUAGE AND LITERATURE. 5-10 Credits.
Cross listed: may be cross-listed CRWR 598.
This course deals with specialized aspects of language and literature. A student may take the seminar several times. The exact content of the course will be indicated in the title to be entered on his or her permanent record.

ENGL 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

ENGL 600. THESIS. 1-12 Credits.
Pre-requisites: Master of Arts in English candidacy; permission of the instructor, department chair and college dean.
Independent research study under the direction of a graduate advisory committee.

ENGL 601. PROFESSIONAL ESSAY. 1-12 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
A formally considered summation and emphasis drawn from the principal course work and professional context of the candidate’s program.

ENGL 694. PRACTICUM: TEACHING FIRST-YEAR COMPOSITION. 2 Credits.
Pre-requisites: current English teaching assistantship or alternate English teaching assistantship or permission of the instructor.
Training in the strategies and practices of teaching first-year composition. Emphasis is on developing curricular and assessment materials for use in teaching ENGL 101 at Eastern Washington University. First-year teaching assistants and first-year alternate teaching assistants are required to enroll in the course fall quarter.

ENGL 695A. INTERNSHIP: TEACHING COMPOSITION. 1-5 Credits.
Pre-requisites: permission of the English Composition Program director, English Department chair, and college dean.
An internship or externship in the teaching of pre-college, college or university composition. The mentor for the internship or externship must be a lecturer or professor who is the instructor-of-record for a pre-college, college or university composition course. A graduate-student teaching assistant cannot mentor another student’s internship or externship. The student and the English Composition Program director will work together to determine the location of and the number of credits for the internship or externship.

ENGL 695B. INTERNSHIP: TEACHING LITERATURE. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair, and college dean.
An internship or externship in the teaching literature. The mentor for the internship or externship must be a lecturer or professor who is the instructor-of-record for a literature course. A graduate-student teaching assistant cannot mentor another student’s internship or externship. The student and the instructor will work together to determine the location of and the number of credits for the internship or externship.

ENGL 695C. INTERNSHIP: TEACHING ENGLISH AS A SECOND LANGUAGE. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair, and college dean.
An internship or externship in the teaching English as a Second Language. The mentor for the internship or externship must be a lecturer or professor who is the instructor-of-record for a teaching English as a Second Language course. A graduate-student teaching assistant cannot mentor another student’s internship or externship. The student and the instructor will work together to determine the location of and the number of credits for the internship or externship.

ENGL 695D. INTERNSHIP: PROFESSIONAL WRITING. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair, and college dean.
Intended for graduate students assigned to writing projects in business, government or industry; may be as a campus resident or on location.

ENGL 695E. INTERNSHIP: WRITER’S CENTER. 1-5 Credits.
Notes: Limited spots available quarterly. Visit to center prior to registration is recommended.
Pre-requisites: interview with the director, permission of the Writers’ Center director, the English Department chair and the college dean.
Allows interns to assimilate into the workplace of the Writers’ Center. Students will establish a regular working schedule and be initiated into current center practice.
ENGL 697. PRACTICUM: TEACHING ADVANCED COMPOSITION. 2 Credits.
Pre-requisites: permission of the instructor, department chair and college dean. Intended for graduate students assigned to writing projects in business, government, or industry; may be as a campus resident or on location.

ENGL 698. PRACTICUM: JOB MARKET. 2 Credits.
Pre-requisites: current English teaching assistantship or alternate English teaching assistantship or permission of the instructor. A professional development course in the field of Rhetoric and Composition. Prepares current and future teachers of composition for the two-year and four-year job market. Emphasis is on developing curriculum vitae, application letters, teaching philosophies and teaching demonstration materials. First-year teaching assistants and alternate teaching assistants are required to enroll in the course spring quarter.

English Language Instruction (ELIC)

ELIC 111. WRITING FOR ACADEMIC PURPOSES. 5 Credits.
Cross listed: ENGL 111.
An integrated skills course to develop writing and grammar fluency in a variety of writing modalities through reading, writing and discussion to prepare students for the multifaceted demands of academic writing.

ELIC 113. READING FOR ACADEMIC PURPOSES. 5 Credits.
An integrated skills course that uses essay and narrative at a university level to develop advanced skills in reading, writing, critical thinking, and discussion.

ELIC 114. UNIVERSITY SEMINAR. 5 Credits.
An integrated second language skills course focused on listening and notetaking that prepares students to discuss issues in seminar. Emphasis is given to analyzing, synthesizing, and evaluating university level content from lectures and GEQR class observation.

ELIC 116. RESEARCH PAPER. 3 Credits.
A graduated course designed to familiarize students with the process of writing a research paper, synthesis of multiple sources, critical thinking, avoiding plagiarism and use of library and Internet resources.

ELIC 196. ENGLISH GRAMMAR 5. 1-5 Credits.
ENGLISH GRAMMAR 5

English as a Second Language (ESLG)

ESLG 395. FIELD WORK/INTERNSHIPS. 1-15 Credits.

ESLG 396. EXPERIMENTAL COURSE. 1-5 Credits.

ESLG 399. DIRECTED STUDY. 1-15 Credits.

ESLG 470. JOINING THE TESOL PROFESSION. 1 Credit.
Pre-requisites: junior standing. This course introduces the TESOL profession to students including overseas contexts of employment, and professional resources and values. Students develop a curriculum vita, a professional development plan and gather resources for the realities of teaching overseas.

ESLG 472. TEACHING ENGLISH FOR SPECIFIC PURPOSES. 3 Credits.
Pre-requisites: junior standing. This course provides students who teach English for Specific Purposes (ESP) with the theory, tools and strategies needed to plan and implement effective instruction that takes into account the language of a workplace. Students will learn the pedagogy of teaching ESP while exploring the language needed for such contexts as Tour Guiding and Hotel Employment.

ESLG 480. SECOND LANGUAGE ACQUISITION. 4 Credits.
Pre-requisites: ANTH 445 or ENGL 360 or permission of instructor. This course briefly reviews the various linguistic systems and their importance in language learning. Acquisition theories are introduced. The developmental process of interlanguage and the factors that impact effective language learning are covered. This course includes practical understanding of how SLA theories relate to instructional choices.

ESLG 481. METHODS AND MATERIALS IN ENGLISH AS A SECOND OR FOREIGN LANGUAGE. 4 Credits.
Pre-requisites: ESLG 480 or permission of the instructor. This course provides an overview of the current major concepts shaping the choice of language teaching methods. This course covers the following elements: teaching language within content areas such as math, science and social studies; developing individual language skills as well as integrating them; and, choosing, developing and using materials effectively to support the language learning process.

ESLG 484. SUPPORTING SECOND LANGUAGE LITERACY LEARNING. 3 Credits.
Pre-requisites: ESLG 480 or permission of instructor. This course provides an understanding of effective curriculum and strategies for assisting language learners to develop oral and print literacy. Emphasis is given to matching instructional choices to populations and particular students.

ESLG 486. ENGLISH AS A SECOND LANGUAGE PRACTICUM. 1-3 Credits.
Pre-requisites: permission of instructor required. This course provides practical experiences with the instruction of English language learners. Students will first take the course for 1 credit, repeat the course for 2 credits and then repeat it for 3 credits with 10, 20 and 30 hours of field placement respectively.

ESLG 488. SECOND LANGUAGE PRINT LITERACY THEORIES. 3 Credits.
Pre-requisites: ESLG 480 and ESLG 481. This course examines current and seminal research that provides insight into the factors affecting the development of literacy by second language learners. Topics covered include prior literacy backgrounds, home-school connections, orthographies, and vocabulary development.

ESLG 489. CULTURAL AND LINGUISTIC DIVERSITY IN THE CLASSROOM. 4 Credits.
This course provides an introduction to the various cultural and linguistic backgrounds in the region. It covers the impact of background cultures on the interactions that occur and expectations that exist in school environments. It also provides an understanding of the role of culture in developing theories about what it means ‘to read’.

ESLG 492. SECOND LANGUAGE LITERACY AND PLACEMENT. 3 Credits.
Pre-requisites: junior standing. This course provides a foundation of concepts integral to considering the assessment of language learners including cultural validity and developing proficiency. Students will apply the concepts as they analyze, evaluate, compare and create language assessments.

ESLG 493. K-12 ENGLISH LANGUAGE LITERACY ASSESSMENT AND PLACEMENT. 3 Credits.
Pre-requisites: ESLG 480 and ESLG 481. This course provides exposure to placement practices and issues for English language learners including the standardized tests used to assess them. It includes a focus on quality classroom assessment with an emphasis on authentic assessment.
ENTP 311. ENTREPRENEURIAL BEHAVIOR AND THINKING. 4 Credits.
Pre-requisites: ENTP 311.
The foundation course in entrepreneurship, this class introduces entrepreneurship as an approach to life and one's career. It examines the nature of entrepreneurship and the entrepreneur, and explores the role of entrepreneurship in society. The key focus is on entrepreneurship as a process anyone can master. An overview of factors that are key to entrepreneurial success and how to approach these issues is provided. Students in this course will also begin developing their Entrepreneurial Experience Portfolios.

ENTP 411. FINDING AND EVALUATING OPPORTUNITIES. 4 Credits.
Pre-requisites: ENTP 311.
Learn and practice skills that enhance the entrepreneur’s chances of successful startup. This course examines the startup process from the perspective of entrepreneurs. Students will learn about and practice telling great stories about a business, giving a powerful pitch, developing and communicating the value proposition of the business, and the process of conducting effective customer insight interviews. This course will continue to build the student’s Entrepreneurial Experience Portfolio.

ENTP 412. BUSINESS MODEL DESIGN. 4 Credits.
Pre-requisites: ENTP 411.
The business model is the engine that drives startup success. This course explores business model design and validation, while exploring ways to test the business model without spending unnecessary time, money and other resources. Additionally, this course will explore approaches that help prospective entrepreneurs dial in their business model rapidly while reducing startup risk and anxiety. This course will continue to build the student’s Entrepreneurial Experience Portfolio.

ENTP 438. ENTREPRENEURIAL AND SMALL BUSINESS FINANCE. 4 Credits.
Cross listed: FINC 438.
Pre-requisites: FINC 335.
Cases, computer simulations, spreadsheets (Excel) and other analytical methods will be applied to issues and problems in entrepreneurial finance. Specific topics will include sources and sequencing of financing as the business develops, assessing and forecasting financial needs, forecasting and managing short- and long-term capital, valuing the business from the entrepreneur’s viewpoint as well as the investors’ viewpoint. The venture capital markets, choice of financing alternatives and harvesting the business will also be examined.

ENTP 489. THE BUSINESS PLAN LABORATORY. 4 Credits.
Pre-requisites: ENTP 311 and one other ENTP course.
This is a hands-on course where student teams will work to create high-quality business plans for new ventures of their choosing. Students will be introduced to research tools and analytical approaches that will help them evaluate opportunities, and create plans that are credible, complete, concise and clear. This course will also emphasize the importance of professional communication skills in promoting the offerings of the business plans. This course will continue to build the student’s Entrepreneurial Experience Portfolio.

Environmental Science (ENVS)

ENVS 100. INTRODUCTION TO ENVIRONMENTAL SCIENCE. 5 Credits.
Pre-requisites: CPLA, ENGL and MATH clearance.
Satisfies: GECR for natural sciences, environmental science.
This course is an introductory exploration of environmental science that emphasizes a scientific approach toward understanding contemporary human interaction with the natural environment. The structure, function and interrelationships of terrestrial, aquatic and atmospheric systems are treated through the application of biological, chemical and geological principles. This course includes a weekly laboratory that uses basic quantitative techniques for collecting and analyzing data from environmental systems.

ENVS 300. ENVIRONMENTAL SCIENCE JUNIOR SEMINAR. 1 Credit.
Pre-requisites: ENVS 100 and admission to the Environmental Science program.
The purpose of this seminar course is to expose students to a variety of potential careers in the environmental sciences.

ENVS 323. GIS FOR ENVIRONMENTAL SCIENCES. 3 Credits.
Cross listed: GEOG 323.
Pre-requisites: CPLA 101 or CPLA 120.
Introduction to Geographic Information Systems (GIS) with an emphasis on its applications in the environmental sciences. Course includes hands-on GIS work in the lab. This course satisfies an option for the Certificate in GIS.

ENVS 399. DIRECTED STUDY. 1-5 Credits.

ENVS 400. ENVIRONMENTAL SCIENCE SENIOR SEMINAR. 1 Credit.
Pre-requisites: ENVS 300 and junior or senior standing.
Through reading current literature, discussion and writing, students integrate knowledge of chemistry, biology and geology with current environmental issues.

ENVS 449. GIS SPATIAL ANALYSIS FOR THE ENVIRONMENTAL SCIENCES. 5 Credits.
Cross listed: GEOL 449, GEOG 449.
Pre-requisites: GEOG 328, GEOG 323 or ENVS 323.
This is an advanced course where students learn to build Geographic Information System (GIS) models for environmental applications. In the course students design, collect and process data, and build several spatial models of increasing complexity and learn more advanced techniques in GIS including raster processing, analysis methods, and layout design. Students document their projects in a report form and create production quality maps. This course stresses independent project design and the development of problem-solving skills.
Exercise Science (EXSC)

EXSC 301. INTRODUCTION TO EXERCISE SCIENCE. 1 Credit.
Pre-requisites: must be declared exercise science major.
This course covers the basic skills necessary for success in the Exercise Science Program and prepares students for a career or graduate school. Students are exposed to professionals from multiple career fields related to Exercise Science. Presentations include the development of a resume and cover letter, how to use the library effectively and various professional development tools. The goal of this course is to help you gain a clear understanding of your career aspirations and to help direct your studies towards those goals.

EXSC 388. EXERCISE SCIENCE PRACTICUM. 1-8 Credits.
Pre-requisites: permission of the instructor.
This course is designed to assist Pre-Physical Therapy (PT) and Pre-Occupational Therapy (OT) students prepare for their application to graduate school. The Pre-PT and Pre-OT Exercise Science majors are required to observe and/or work under a licensed PT or OT in different settings. They will spend a minimum of 50 hours at any one location and can observe in 2-4 different locations. The experience will be documented through record of hours, and a reflection of the experience as a potential career location as a PT or OT professional at the completion of the hours.

EXSC 395. INTERNSHIP. 1-8 Credits.
Pre-requisites: permission of the instructor.

EXSC 455. RESEARCH AND ANALYSIS. 2 Credits.
Pre-requisites: CSBS 320.
This course is designed to teach the students to critically analyze the literature in the field. In addition, they will be exposed to the criteria for good research and to evaluate how well articles in the field follow that criteria.

EXSC 460. PHYSIOLOGY OF EXERCISE. 4 Credits.
Pre-requisites: PHED 349, PHED 350 and PHED 352 or permission of the instructor.
The application of physiological principles to exercise. Special attention is given to energy sources, work, power, pulmonary system, cardiorespiratory neural control systems, sex differences, hypo- and hyperbaric pressure, heat balance, body composition, and the endocrine system in exercise.

EXSC 480. CLINICAL EXERCISE PHYSIOLOGY. 3 Credits.
Pre-requisites: PHED 350 or permission of the instructor.
This course presents a detailed understanding of the latest advances in the emerging field of clinical exercise physiology. The focus is on diseases, where exercise can impact onset, treatment or outcomes, i.e., diseases of the cardiovascular, endocrine and musculoskeletal systems.

EXSC 481. ELECTROCARDIOLOGY INTERPRET. 3 Credits.
Pre-requisites: BIOL 232, BIOL 233.
This course teaches the interpretation of electrocardiograms (ECGs). It will cover normal and pathological changes both at rest and during exercise.

EXSC 488. PROFESSIONAL INTERNSHIP. 5-15 Credits.
Pre-requisites: permission of the instructor.
This course is designed to assist Exercise Science students prepare for a job in their chosen field. The internship experience is hands-on under the supervision of a professional, monitored by the faculty advisor. Students will have completed the majority of their course work to prepare for the experience. The requirement is 400 hours and may be divided into up to three locations. The experience will be documented through record of hours and regular reflections of the experience as a potential career location, as well as evaluations by the site supervisor.

EXSC 490. SENIOR CAPSTONE IN EXERCISE SCIENCE. 4 Credits.
Pre-requisites: senior standing and EXSC 460.
Satisfies: senior capstone university graduation requirement.
This course is designed as a departmental capstone for Exercise Science majors. They will study the process of assessment and prescription of apparently healthy adults. There will be end-of-program assessment, both written and practical. Students will also study a current issue in the field through research, group projects and written and oral presentations. The course is designed to help students prepare for the ACSM’s Certified Health Fitness Specialist, the benchmark exam in the field.

EXSC 495. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

EXSC 496. EXPERIMENTAL COURSE. 1-15 Credits.

EXSC 499. DIR STUDY. 1-15 Credits.

Film (FILM)

FILM 110. INTRODUCTION TO FILMIC ARTS MEDIA PRODUCTION. 5 Credits.
Notes: offered fall quarter.
Pre-requisites: ENGL 201 or equivalent.
Foundational overview of the production techniques for telling stories cinematically. Laboratory exercises provide hands-on experience with audio and video equipment.

FILM 196. EXPERIMENTAL COURSE. 1-5 Credits.

FILM 214. FILM AND THE HUMANITIES. 5 Credits.
Notes: offered every quarter.
Satisfies: the GECR for humanities and fine arts, list 2, fine arts.
Explores the varieties of human experience as they are expressed through the vocabulary of the filmic arts. Critical viewing, thinking and writing are central.

FILM 221. NARRATIVE SCRIPT ANALYSIS. 5 Credits.
Notes: offered fall quarter.
Pre-requisites: ENGL 201.
The study and creation of narrative structures in film and video. Topics addressed include fiction and non-fiction, story world and screen world, selectivity and objectivity, and devices used to represent tense and relationship. Students write critical papers as well as original scripts and view films and videos.

FILM 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental.
FILM 305. ACTING FOR DIRECTORS AND WRITERS I. 2 Credits.
Notes: offered winter quarter.
Pre-requisites: FILM 110, FILM 214 and FILM 221 or permission of the instructor.
Explores the art of film acting from the perspectives of the director and the writer.

FILM 306. ACTING FOR DIRECTORS AND WRITERS II. 2 Credits.
Notes: offered fall quarter.
Pre-requisites: FILM 305 or permission of the instructor.
Further explores the creative dynamics between film directors, writers and actors.

FILM 311. FILM PRODUCTION. 5 Credits.
Notes: offered winter quarter.
Pre-requisites: FILM 110, FILM 214, FILM 221.
Aesthetic considerations of the video and audio aspects of filmic arts production. Various techniques and media are considered. Laboratory exercises encourage audio and video exploration of new forms and techniques.

FILM 312. FILM DIRECTING AND PRODUCING. 5 Credits.
Notes: offered spring quarter.
Pre-requisites: FILM 311.
Experience in directing and producing short films. Topics include scheduling, budgeting, visual storytelling and working with actors.

FILM 321. WRITING THE SHORT FILM. 5 Credits.
Notes: offered winter quarter.
Pre-requisites: FILM 214, FILM 221.
The course provides experience in writing the short film. Students will learn to develop the visual story through focusing on dramatic structure, character development, scene writing, dialogue and action. Criticism and revision are emphasized.

FILM 322. ADAPTATION. 5 Credits.
Notes: offered spring quarter.
Pre-requisites: FILM 321.
Adapting pre-existing materials, ideas and out-of-copyright literary work into producible short screenplays. Narrative problem solving, structure, criticism and revision are central.

FILM 396. EXPERIMENTAL. 1-5 Credits.
Experimental.

FILM 399. SPECIAL STUDIES IN RADIO AND TELEVISION. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects studied vary according to faculty and student interest.

FILM 410. ADVANCED FILM PRODUCTION I. 5 Credits.
Pre-requisites: FILM 312, FILM 322, FILM 466.
Further exploration of camera work, set lighting and field sound recording encourages each student to develop a unique directorial voice. Laboratory exercises introduce new techniques in multiple aspects of film production. Students critically evaluate their own work as well as the work of their peers.

FILM 417. ADVANCED SCREENWRITING. 4 Credits.
Notes: offered fall quarter and may be repeated for credit when topics vary.
Pre-requisites: FILM 322.
Workshop in various forms of script writing, e.g., documentary, narrative fictional, narrative nonfictional, comedy, adaptation. Students learn the art of the pitch, outlining and writing the film treatment. Different topics will be indicated on EagleNET and on the student’s permanent record.

FILM 420. FEATURE FILM WRITING. 4 Credits.
Notes: may be repeated for credit when screenplay project is different.
Pre-requisites: FILM 417 or permission of the instructor.
Students will write a first draft of a feature film screenplay from a treatment or story outline.

FILM 439. SPECIAL TOPICS. 1-5 Credits.
Pre-requisites: permission of the instructor.
The topics in this course will vary. Examples may include writing for specific genres, examination of films from a historical period and the screenplay as literature.

FILM 465. FILM HISTORY I. 5 Credits.
Pre-requisites: FILM 214.
Satisfies: international studies university graduation requirement.
Explores the history of motion picture production through 1960 as represented by movies that represent a spectrum of historical periods, national cultures, genres, and styles. Analysis, critical thinking, and writing are central.

FILM 466. FILM HISTORY II. 5 Credits.
Pre-requisites: FILM 465.
History and development of the filmic arts from the 1950s to the present. Emphasis on analysis, critical thinking and writing.

FILM 467. FILM THEORY AND CRITICISM. 5 Credits.
Notes: offered fall quarter.
Pre-requisites: FILM 466.
Explores the major film theories and their evolution. Critical thinking, writing and analytic skills are central.

FILM 470. FILM CRITICISM. 4 Credits.
Notes: may be repeated for credit when topics vary.
Pre-requisites: FILM 467 or permission of the instructor.
This variable topic class explores a significant theory or issue within the filmic arts. Emphasizes critical viewing, reading and writing.

FILM 480. ADVANCED FILM PRODUCTION II. 4 Credits.
Notes: Offered winter quarter. Students must secure instructor approval for their project before enrollment.
Pre-requisites: FILM 410 and permission of instructor.
Intensive study in the preproduction and production of a short film. Emphasis on both schedule adherence and aesthetic realization.

FILM 481. ADVANCED FILM PRODUCTION III. 4 Credits.
Notes: Offered spring quarter. Students must secure instructor approval for their project before enrollment.
Pre-requisites: FILM 410 and permission of instructor.
Intensive study in the production and post-production of a short film. Emphasis on both schedule adherence and aesthetic realization.

FILM 482. ORAL EXAMINATION: PRODUCTION. 1 Credit.
Notes: offered spring quarter.
Pre-requisites: FILM 417 and permission of instructor.
Students will complete a short film and screen it for the public and the FILM faculty. Directors will discuss storytelling and aesthetic choices following the screening.

FILM 483. ORAL EXAMINATION: CRITICISM. 1 Credit.
Notes: offered spring quarter.
Pre-requisites: FILM 470.
Students compose and defend a thesis in Film Criticism.

FILM 484. ORAL EXAMINATION: SCREENWRITING. 1 Credit.
Notes: offered spring quarter.
Pre-requisites: concurrent registration in FILM 490.
Students will prepare a feature length screenplay for submission to faculty as a part of an oral examination in the FILM major.
and retirement planning. Real estate, major purchases, cash management, insurance, investments

The meaning of poverty, the illusion of value, budgeting, tax planning, credit, the relationship between money and success, money and power, the practical and a philosophical level. Covers a number of topics, such as

Deals with the management of individual financial affairs on both a reasoning.

Satisfies: senior capstone university graduation requirement. Students will create and defend a feature-length screenplay. Other course requirements include writing a reflective essay that analyzes and synthesizes their coursework in the Film major.

FINC 490. FILM SENIOR CAPSTONE. 4 Credits.

Notes: offered spring quarter.

Pre-requisites: FILM 410, FILM 420, FILM 470, final quarter senior status.

FINC 296. EXPERIMENTAL COURSE. 1-5 Credits.

FINC 299. DIRECTED STUDY. 1-15 Credits.

FINC 335. FINANCIAL MANAGEMENT. 4 Credits.

Pre-requisites: (MATH 142 MATH 161 or MATH 200) and DSCI 245 and ACCT 251 and (either ECON 200 or ECON 201) and the university computer literacy requirement.

This course covers the application of basic theory and analytical techniques to financial decision making. It discusses the time value of money and capital budgeting, as well as capital structure and risk return trade off as they relate to the cost of capital, securities valuation and capital budgeting.

FINC 395. PROFESSIONAL INTERNSHIP. 1-15 Credits.

FINC 398. SEMINAR. 1-5 Credits.

FINC 399. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

FINC 431. INVESTMENTS. 4 Credits.

Pre-requisites: FINC 335.

Examines principles of investments valuation; objectives and risks involved; sources of relevant information. Security analysis and investment timing in a portfolio management framework.

FINC 432. RISK MANAGEMENT. 4 Credits.

Pre-requisites: FINC 434.

This course examines risks faced by the economy and businesses. Discussions include the principles of risk and risk management methods.

FINC 433. SECURITIES ANALYSIS. 4 Credits.

Pre-requisites: FINC 431.

This course examines the data and techniques used to evaluate equity securities for investment purposes. Both the fundamental and technical approaches to analysis and evaluation are covered in depth. A complete analysis of a currently traded security is required.

FINC 434. FINANCIAL DERIVATIVES. 4 Credits.

Pre-requisites: FINC 335

Provides an in-depth background to various financial derivatives including futures, options, swaps, securitized securities, and collateralized mortgage obligations. Discusses concepts related to the operation of financial derivatives including marketing to market and clearing corporations.

FINC 435. CAPITAL BUDGETING AND LONG-TERM FINANCING. 4 Credits.

Pre-requisites: FINC 335.

Provides in-depth background and skill development for capital budgeting and long-term financial decision-making. Emphasis on discounted cash flow analysis using computer spreadsheets. Discusses capital structure, dividend policy, cost of capital, and risk analysis. Also covers long-term financing issues of a business or corporation. Uses cases, computer simulations and other analytical techniques.

FINC 436. SHORT-TERM FINANCIAL MANAGEMENT. 2 Credits.

Pre-requisites: FINC 335.

Provides necessary background and skill development to understand and analyze short-term financing issues. Topics include financial liquidity, working capital management, cash forecasting, cash budgeting and short-term investing and financing. Cases, spreadsheets and other methods are used extensively.
FINC 438. ENTREPRENEURIAL AND SMALL BUSINESS FINANCE. 4 Credits.
Pre-requisites: FINC 335.
Cases, spreadsheets and other analytical methods are applied to issues and problems in entrepreneurial and small business finance. Specific topics include the sources and sequencing of financing as the business develops, assessing, forecasting and managing short-term and long-term capital needs, developing a financial plan to match the business plan, and valuing the business from the investors’ viewpoint.

FINC 439. CURRENT TOPICS IN FINANCE. 4 Credits.
Notes: may be repeated for credit if topics differ.
Pre-requisites: FINC 435.
Individual reports, team projects, team presentations and class discussion are used to examine current issues and problems in finance, business and the global economy.

FINC 441. PORTFOLIO MANAGEMENT I. 2 Credits.
Prerequisite: FINC 335. This is an introductory course dealing with the management of real dollar portfolios. Students enrolled in this course will be expected to enroll in FINC442 and FINC443 subsequent quarter. Topics covered include modern portfolio theory, security analysis and valuation, and portfolio performance evaluation. Students will also be involved in management of extant portfolios primarily as observers.

FINC 442. PORTFOLIO MANAGEMENT II. 2 Credits.
Prerequisite: FINC 441. This course is a continuation of FINC441. Students enrolled in this class will be involved in the day-to-day management of real dollar portfolios. Responsibilities will include presentation of security recommendations, portfolio rebalancing, and analysis of portfolio risk. An end of quarter report will be prepared and presented.

FINC 443. PORTFOLIO MANAGEMENT III. 2 Credits.
Prerequisite: FINC 442. This course is a continuation of the information covered in FINC441 and FINC442. Students enrolled in this class will be involved in the day-to-day management of real dollar portfolios. Responsibilities will include presentation of security recommendations, portfolio rebalancing, and analysis of portfolio risk. An end of quarter report will be prepared and presented.

FINC 474. INTERNATIONAL FINANCE MANAGEMENT. 4 Credits.
Cross listed: IBUS 474.
Pre-requisites: FINC 335.
This course discusses financial management in the international arena.

FINC 495. PROFESSIONAL INTERNSHIP. 1-5 Credits.
Notes: graded Pass/Fail.
Pre-requisites: permission of the instructor, department chair and college dean.

FINC 496. EXPERIMENTAL COURSE. 1-15 Credits.
FINC 498. SEMINAR. 1-5 Credits.
FINC 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

French (FREN)

FREN 101. FIRST-YEAR FRENCH I. 5 Credits.
Grammar, composition, conversation, and discussion of cultural topics.

FREN 102. FIRST-YEAR FRENCH II. 5 Credits.
Pre-requisites: for FREN 102: FREN 101 or equivalent.
Grammar, composition, conversation, and discussion of cultural topics.

FREN 103. FIRST-YEAR FRENCH III. 5 Credits.
Pre-requisites: FREN 102 or equivalent.
Grammar, composition, conversation, and discussion of cultural topics.

FREN 113. SPECIAL TOPICS IN FRENCH. 5 Credits.
Pre-requisites: FREN 102.
A supplemental first-year course, covering grammar, composition and conversation and emphasizing discussion of cultural topics.

FREN 196. EXPERIMENTAL COURSE. 1-5 Credits.

FREN 199. INDEPENDENT STUDY. 1-15 Credits.

FREN 201. FRENCH GRAMMAR AND COMPOSITION. 5 Credits.
Pre-requisites: first-year French or equivalent.
A review of basic French grammar and intensive practice of basic French composition.

FREN 202. FRENCH GRAMMAR AND COMPOSITION. 5 Credits.
Pre-requisites: FREN 201 or equivalent.
A review of basic French grammar and intensive practice of basic French composition.

FREN 203. FRENCH GRAMMAR AND COMPOSITION. 5 Credits.
Pre-requisites: FREN 202 or equivalent.
A review of basic French grammar and intensive practice of basic French composition.

FREN 296. EXPERIMENTAL COURSE. 1-10 Credits.

FREN 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-10 Credits.

FREN 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary according to faculty and student interest.

FREN 305. FRENCH CONVERSATION. 2 Credits.
Pre-requisites: FREN 201 or permission of the instructor.
Concentrated drill in French conversation, discussing such subjects as the culture, civilization and current events of France.

FREN 306. FRENCH CONVERSATION. 2 Credits.
Pre-requisites: FREN 201 or permission of the instructor.
Concentrated drill in French conversation, discussing such subjects as the culture, civilization and current events of France.

FREN 310. ADVANCED GRAMMAR AND COMPOSITION. 4 Credits.
Pre-requisites: FREN 203.
An advanced French course stressing the review of grammar in such practical applications as writing and translation.

FREN 320. FRENCH CIVILIZATION AND CULTURE I. 4 Credits.
Pre-requisites: FREN 203 or permission of the instructor.
Political, social, intellectual and artistic development of French culture from the beginning through 1789, the French Revolution.

FREN 321. FRENCH CIVILIZATION AND CULTURE II. 4 Credits.
Pre-requisites: FREN 203 or permission of the instructor.
Political, social, intellectual and artistic development of French culture from the French Revolution of 1789 to the present.

Food and Nutrition/Dietetics (FNDT)

FNDT 356. NUTRITION. 5 Credits.
Notes: for health science majors.
This course, for health sciences majors, focuses on nutrients, processes of digestion, absorption, metabolism and nutritive requirements.
FREN 330. INTRODUCTION TO FRENCH LITERATURE. 4 Credits.
Notes: content varies; course may be repeated.
Pre-requisites: FREN 203.
Reading and discussion of selections in French prose, drama and poetry.

FREN 396. EXPERIMENTAL COURSE. 1-5 Credits.

FREN 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

FREN 398. SEMINAR. 1-5 Credits.
Pre-requisites: FREN 203 or permission of the instructor.

FREN 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

FREN 430. 17TH CENTURY FRENCH LITERATURE AND CULTURE. 3 Credits.
Pre-requisites: FREN 203 or permission of the instructor.
A survey of the major movements and the outstanding writers of the Classical Period in the context of their society.

FREN 431. 18TH CENTURY FRENCH LITERATURE AND CULTURE. 3 Credits.
Pre-requisites: FREN 203 or permission of the instructor.
A survey of the major movements and the outstanding writers of the Age of Reason in the context of their society.

FREN 433. 19TH CENTURY FRENCH LITERATURE AND CULTURE. 3 Credits.
Pre-requisites: FREN 203 or permission of the instructor.
A survey of the major movements and the outstanding writers of the 19th century in the context of their society.

FREN 496. EXPERIMENTAL COURSE. 1-5 Credits.
FREN 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
FREN 498. SEMINAR. 1-5 Credits.
FREN 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

GNML 212. MODERN WORLD MASTERPIECES. 5 Credits.
Satisfies: GEGR for humanities and fine arts, list 1, literature.
Literary works selected from 19th and 20th century world literature which illustrate themes and ideas central to modern Western culture, especially emphasizing the role of the individual in modern society.

GNML 296. EXPERIMENTAL COURSE. 1-5 Credits.
GNML 298. SEMINAR. 1-2 Credits.
Seminar.

General Modern Languages (GNML)

GNML 101. 1ST YEAR LANGUAGE. 5 Credits.

GNML 102. 1ST YEAR LANGUAGE. 5 Credits.

GNML 103. 1ST YEAR LANGUAGE. 5 Credits.

GNML 196. EXPERIMENTAL COURSE. 1-5 Credits.

GNML 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

GNML 199. DIRECTED STUDY. 1-5 Credits.

GNML 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

GNML 390. FOREIGN LANGUAGE METHODS. 4 Credits.
Pre-requisites: completion of second year of a foreign language, 2.00 GPA, junior standing or permission of the instructor, pass comprehensive exam.
A survey of modern practices in the teaching of foreign languages.

Geography (GEOG)

GEOG 100. FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT. 5 Credits.
Satisfies: a GECR for natural sciences, geography.
An introduction to the principal components of the earth's natural systems of weather, climate, water, soils, natural vegetation and landforms and their interrelationships.

GEOG 101. FUNDAMENTALS OF HUMAN GEOGRAPHY. 5 Credits.
Satisfies: GECR for social sciences, list #2, anthropology, geography, psychology and sociology.
An introduction to the study of spatial variations among human cultures and the patterns of interaction between humans and the natural environment, with special emphasis on topics including language, religion, demography, political systems, technology, agriculture, manufacturing and urbanization.

GEOG 115. INVESTIGATING EARTH SCIENCE. 5 Credits.
Cross listed: GEOL 115.
Pre-requisites: pre-university basic skills in mathematics.
Satisfies: a GECR for natural sciences, geology.
For students planning to teach elementary school. Includes inquiry-based earth science investigations that support science instruction outlined in the National Science Education Standards and Washington Essential Academic Learning Requirements.

GEOG 195. INTERNSHIP. 1-15 Credits.
GEOG 201. INTRODUCTION TO FIELD RESEARCH. 5 Credits.
This course presents the fundamentals of field research design and performance.

GEOG 204. ATMOSPHERIC ENVIRONMENT. 5 Credits.
Satisfies: a GECR for natural sciences, geography.
An introduction to the earth-atmosphere system. The course surveys the physical nature of the atmosphere including weather elements, weather systems and climate. The course addresses the social and environmental issues related to natural and human induced changes in the composition of the atmosphere.
**GEOG 226. INTRODUCTION TO GIS SOFTWARE DESIGN. 2 Credits.**
This course provides hands-on experience and teaches students technical proficiency using GIS software through demonstration and laboratory exercises.

**GEOG 227. INTRODUCTION TO MAP AND AIR PHOTO ANALYSIS. 3 Credits.**
- **Pre-requisites:** GEOG 100 or GEOG 101 or permission of instructor.
- The primary focus of this course is mastering the uses of maps and remote imagery as sources of geographic information, both environmental and cultural. Special attention will be directed toward maps as communication devices. The course assumes no specific prior knowledge about maps and mapping and will be of value for those wishing to move on to cartography and geographic information systems (GIS) courses as well as general background for social science and education majors.

**GEOG 230. WORLD REGIONAL GEOGRAPHY. 5 Credits.**
- **Satisfies:** international studies university graduation requirement.
- A survey of world geographical relationships. Includes an examination of the distribution of selected physical and human phenomena and the processes responsible for the distributions and the varying interrelationships from place to place between humans and the environment.

**GEOG 250. GLOBAL ECONOMIC DEVELOPMENT. 3 Credits.**
This course is a survey of the patterns, structures and locational principles of economic activity, including world regional and historical economic development, natural resources, agriculture, manufacturing, transportation, communications and the distribution of service sectors. Particular emphasis will be placed on the process of globalization, free trade and the increasing significance of space and place in the 21st century global economy.

**GEOG 299. SPECIAL STUDIES. 1-15 Credits.**
- **Pre-requisites:** permission of the instructor, department chair and college dean.
- Subjects studied vary according to faculty and student interest.

**GEOG 300. PHYSICAL GEOGRAPHY. 5 Credits.**
- **Pre-requisites:** GEOG 100 or permission of the instructor.
- Systematic study of physical events and processes within the human environment including elements of landforms, weather and climate, vegetation and soils.

**GEOG 301. HUMAN GEOGRAPHY. 5 Credits.**
- **Pre-requisites:** successful completion of ENGL 201.
- A study of humans, focused on their interaction with the physical and cultural environments of the earth.

**GEOG 305. INTRODUCTION TO OCEANOGRAPHY. 5 Credits.**
- **Pre-requisites:** mathematics clearance.
- An introduction to the nature, occurrence, distribution and interrelationships of phenomena in the oceans, the basins and margins.

**GEOG 306. VEGETATION ECOLOGY OF NORTH AMERICA. 5 Credits.**
- **Cross listed:** BIOL 306.
- **Pre-requisites:** GEOG 100 or permission of the instructor.
- This course is an introduction to the processes and patterns of vegetation, emphasizing the Pacific Northwest.

**GEOG 312. FUNDAMENTALS OF SOIL SCIENCE. 4 Credits.**
- **Cross listed:** BIOL 312.
- **Pre-requisites:** MTHD 104 or clearance by test.
- A general introduction to physical, chemical and biological properties of soils.

**GEOG 314. WEATHER AND CLIMATE. 5 Credits.**
- **Pre-requisites:** GEOG 204 or 10 credits of upper division science or permission of the instructor.
- Includes the principles of meteorology, description and use of instruments, weather and climate controls.

**GEOG 315. SURFACE HYDROLOGY. 4 Credits.**
- **Pre-requisites:** mathematics clearance.
- A comprehensive treatment of the hydrologic environment of the earth. Topics include: components of the hydrologic cycles, hydrography of major climate regions, water quality assessment and global water resource problems.

**GEOG 317. RESOURCES AND CONSERVATION. 3 Credits.**
- Studies the nature and distribution of natural resources, and problems and principles of their use and conservation.

**GEOG 320. MIDDLE EASTERN HISTORY AND CULTURE. 5 Credits.**
- **Cross listed:** ANTH 320, HIST 320.
- Examines the various ethnic, religious and national communities of the Middle East in historical and contemporary context.

**GEOG 321. GIS FOR SOCIAL SCIENCES. 3 Credits.**
- **Pre-requisites:** CPLA 101.
- Introduction to Geographic Information Systems (GIS) with an emphasis on its applications in the Social Sciences, including census data, demographic analysis, social justice, and related mapping of social phenomena. Course includes hands-on GIS work in the lab.

**GEOG 323. GIS FOR ENVIRONMENTAL SCIENCES. 3 Credits.**
- **Cross listed:** ENVS 323.
- **Pre-requisites:** CPLA 101 or CPLA 120.
- Introduction to Geographic Information Systems (GIS) with an emphasis on its application in the Environmental Sciences. Course includes hands-on GIS work in the lab This course satisfies an option for the Certificate in GIS.

**GEOG 325. WETLAND SCIENCE I. 4 Credits.**
- **Pre-requisites:** permission of the instructor.
- An introduction to the fundamental processes that form and sustain wetlands. Emphasizes the distinctive hydrology, soils, and vegetation of wetlands and field experience in delineation. Examines issues of regulation. Focus is on Pacific Northwest wetlands.

**GEOG 328. GEOGRAPHIC INFO SYSTEMS I. 5 Credits.**
- **Pre-requisites:** Computer Literacy.
- Introductory survey of geographic information systems. Focus is on (1) computer techniques for the input, storage, manipulation, analysis, and output of spatial data, and (2) the social and administrative creation and dissemination of geographic information. Lecture and laboratory.

**GEOG 329. AIR PHOTO INTERPRETATION. 5 Credits.**
- **Pre-requisites:** junior standing or permission of the instructor.
- Aerial photographs as records of the earth surface; recognition, measurement, and interpretation of natural and man-made features.

**GEOG 330. GEOGRAPHY OF THE PACIFIC NORTHWEST. 4 Credits.**
- **Pre-requisites:** junior standing.
- An introduction to regional geographic studies on a local scale. A survey and appraisal of the interrelated elements of the economy, resources, population and physical environment as they affect the growth and development of the region.

**GEOG 332. GEOGRAPHY OF LATIN AMERICA. 4 Credits.**
- **Pre-requisites:** junior standing.
- The study of the physical and human geography of the Americas south of the Rio Grande. Emphasizes explanatory description.
GEOG 333. GEOGRAPHY OF MONSOON ASIA. 4 Credits.
This course is a regional study of non-Russian Asia and adjacent islands, from humid monsoon lands of the far east to the arid eastern Mediterranean.

GEOG 334. THE HISTORICAL GEOGRAPHY OF CANADA. 4 Credits.
Cross listed: HIST 334.
Canada occupies a strategic place in world geography owing to its central location with regard to Europe, Asia and the United States; its resource base, its role in regional and world organizations and the distinctive national characteristics and traditions that its peoples have developed. This course provides an overview of the major geographic regions of Canada based on physical environments, history, settlement patterns, natural resources, transportation and industry, urbanization and cultural and ethnic diversity.

GEOG 335. GEOGRAPHY OF THE PACIFIC RIM. 4 Credits.
The growing importance of the nations surrounding the Pacific Ocean in world economic development and international relations has been apparent since the early 1900s, but today, at the threshold of a new century, it is of critical importance. The destiny of the United States, and the Pacific Northwest in particular, is inextricably linked to events in such places as China, Japan, the Koreas, Indonesia, Australia, Latin America, Canada and Russia, to name but a few. This course will focus on the major trading nations of the Pacific Rim and examines their relationships with the nations of North America and each other with an approach that blends geography, economics, political science and cultural awareness.

GEOG 336. GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST. 5 Credits.
Cross listed: ANTH 336, HIST 336.
Examines the Middle East and its various ethnic, political, economic, religious and environmental conflicts from a geographic perspective. The course’s holistic combination of geographic and anthropological inquiry will offer insights into how the natural environment and built environment interact and engage with the cultural and political landscapes of the Middle East.

GEOG 355. THE GEOGRAPHY OF THEME PARKS. 2 Credits.
Pre-requisites: ENGL 201.
Examination of the geographic history and characteristics of the theme park as a ‘serious’ part of the built environment. We consider the environmental, economic, political, cultural, architectural, and technological impacts of theme parks on urban and suburban space around the world.

GEOG 357. THE GEOGRAPHY OF CHILDHOOD. 3 Credits.
Pre-requisites: ENGL 201.
Examination of the geographic aspects of childhood across space and time. Focus on how cultures in different places and at different times have created, maintained, and controlled spaces for children, including where children are born, who cares for infants, the conditions of schooling, leisure spaces provided, and the ‘virtual geographies’ of television and the internet.

GEOG 390. EARTH SCIENCE TEACHING METHODS. 1 Credit.
Cross listed: GEOL 390.
Pre-requisites: GEOL 120, GEOL 121, GEOG 314, PHYS 121; EDUC 303 or permission of the instructor. SCED 390 co-requisite.
This course is designed for Earth Science majors planning to teach middle school, junior or senior high school. It includes the development of curriculum and the organization of teaching materials, techniques and evaluation.

GEOG 392. SEMINAR IN HISTORY AND PHILOSOPHY OF GEOGRAPHY. 2 Credits.
Pre-requisites: junior standing or permission of the instructor.
The development of geographic thought from early to contemporary time.

GEOG 396. EXPERIMENTAL COURSE. 1-6 Credits.

GEOG 398. SEMINAR. 2 Credits.

GEOG 399. DIRECTED STUDY. 1-6 Credits.
Notes: maximum of 6 credits may be earned.
Pre-requisites: permission of the instructor.
Individual study concerned with an appropriate problem closely directed by a geography staff member. Science or social studies credits may be earned depending on the nature of the problem undertaken.

GEOG 406. WOMEN AND MEN IN THE CULTURAL LANDSCAPE. 1 Credit.
Cross listed: WMST 406.
The created landscape reflects human values and experience. This course examines ways in which women and men create, use and experience the humanized landscape. We will examine spatial patterns of human activity from a variety of times and places, linking geographic theory to everyday environments. The course will include map work, slide analysis and a field exercise as tools for identifying and interpreting cultural landscapes.

GEOG 410. GEOMORPHOLOGY. 5 Credits.
Pre-requisites: GEOG 100 or GEO 121 or permission of the instructor.
This course treats the development of the surface features of the earth caused by mountain-building, weathering, erosion and deposition.

GEOG 420. APPLIED GEOGRAPHIC STUDIES. 2-5 Credits.
Notes: May be repeated for different problems.
Pre-requisites: junior or permission of the instructor.
Credits vary, depending on type of study undertaken. Problem formulation and analysis as they apply to geographic studies. Practical use of geographical techniques mainly for student-originated studies.

GEOG 427. DESKTOP MAPPING. 3 Credits.
Pre-requisites: CPLA 101 or permission of the instructor.
Advanced production of maps and related graphics using computer techniques. Emphasis is placed on the design and creation of thematic maps. Lecture and laboratory.

GEOG 428. GEOGRAPHIC INFORMATION SYSTEMS II. 5 Credits.
Pre-requisites: GEOG 328.
Advanced course in geographic informations systems and their applications. Through detailed examination of conceptual issues and in-depth laboratory work, students develop and implement a project that involves the computer analysis of spatial data. Lecture and laboratory.

GEOG 429. GEOGRAPHIC INFORMATION SYSTEMS III. 5 Credits.
Pre-requisites: GEOG 428 or permission of the instructor.
Advanced course in geographic information systems and their applications. Each student will be responsible for designing and carrying out a GIS project using real world data. Course required for certification in GIS.

GEOG 436. POLITICS OF CULTURE: ISRAEL AND PALESTINE. 5 Credits.
Cross listed: ANTH 436, HIST 436.
Examines the role of culture in the political struggles between Israelis and Palestinians. Explores the influence of national, religious, ethnic and historical narratives in the conceptualization of the Israeli-Palestinian conflict. This course will consider how a detailed knowledge of these ‘politics of culture’ can provide meaningful insights to potential avenues of cultural reconciliation and, ultimately, a more peaceful environment for Israelis and Palestinians.
GEOG 437. WOMEN AND ISLAM. 5 Credits.
Cross listed: ANTH 437, HIST 437, WMST 437.
Pre-requisites: junior or senior standing.
This course examines the status and identity of women in Islamic communities throughout the world and assesses how different interpretations of Islam, as a simultaneous religious, social, cultural, political and economic system, influences perceptions of women within Islamic communities. It further considers the perceptions of Islam vis-à-vis women and Islamic women themselves by non-Muslim communities.

GEOG 438. PEACE, VIOLENCE AND CULTURE. 5 Credits.
Cross listed: ANTH 438, HIST 438.
Pre-requisites: junior or senior standing.
This course is a collective exercise in critical thinking on the intersection and interaction of peace, violence and culture. It explores the cultural dimensions of peace and violence, including the role of culture in defining and understanding the manifestation and enactment of peace and violence both by and against individuals as well as groups.

GEOG 449. GIS SPATIAL ANALYSIS FOR THE ENVIRONMENTAL SCIENCES. 5 Credits.
Cross listed: GEOL 449, ENVS 449.
Pre-requisites: GEOG 328, GEOG 323 or ENVS 323.
This is an advanced course where students learn to build Geographic Information System models for environmental applications. In the course, students design, collect data, process data and build several spatial models of increasing complexity. Students will learn advanced techniques in Geographic Information Systems including raster processing, analysis methods and layout design and document their projects in a report form and create production quality maps. This course stresses independent project design and the development of problem solving skills.

GEOG 450. GLOBAL TRANSPORT DEVELOPMENT. 3 Credits.
Pre-requisites: GEOG 101 or permission of the instructor.
Transportation, involving the movement of goods, people and information, is the most tangible expression of interaction between regions and places. Because it is a major force in shaping the landscape, transportation studies assume a central position in the field of geography. The creation of rapid and economical access is central to the process of development at local, regional and national scales. Changes in modes of transport, particularly since the mid-19th century, have revolutionized trade, travel and communication. The evolution of transport networks has been critical in fostering urbanization and a specialized space economy. In this course we will explore the basic concepts of geographical transportation analysis and apply them to a variety of historical and contemporary topics.

GEOG 459. POLITICAL GEOGRAPHY. 3 Credits.
Pre-requisites: junior standing or permission of the instructor.
Spatial aspects of political phenomena. Examines the geographical environment as it affects and is affected by political phenomena.

GEOG 465. URBAN GEOGRAPHY: ORIGINS, FORMS AND FUNCTIONS. 3 Credits.
Urbanization has been such a central aspect of human civilization that the forces affecting cities and towns are almost as diverse as those shaping culture itself. This course in urban geography will deal with two major aspects of urbanization: the role, purpose and evolution of cities; and the processes at work in our society that both create and transform the physical structure of cities. Because urban places are central to our economy as well as society, we will consider a broad and varied range of material from other academic disciplines, with the primary focus on the North American city.

GEOG 469. BUILT ENVIRONMENTS OF NORTH AMERICA: SYMBOL AND STRUCTURE. 3 Credits.
Cross listed: HIST 469, PLAN 469.
Pre-requisites: GEOG 101 or permission of the instructor.
This course is a survey of North American architectural landscapes from the colonial period to the present. This course will examine such topics as the diffusion of major styles of residential, commercial and public architecture across the continent, the relationship of geology and climate to the availability of building materials and technology and the effects of these on the human built environment, especially in the Pacific Northwest. Special emphasis will be placed on the visual differentiation of building styles and the symbolic, political and philosophical foundations of architectural form and decoration.

GEOG 470. GIS PROGRAMMING. 5 Credits.
Pre-requisites: GEOG 428 or permission of instructor.
This is an advanced GIS course that focuses on the computer programming languages utilized within GIS software. A variety of GIS-related programming languages, methods and techniques are surveyed. Students gain direct experience developing algorithms, reading existing code and writing their own programs in a selected programming language. This is a lab-intensive class; prior computer programming experience recommended but not required.

GEOG 490. THE GEOGRAPHER'S CAPSTONE. 5 Credits.
Pre-requisites: senior standing or permission of the instructor.
Satisfies: senior capstone university graduation requirement.
This course is a departmental capstone highlighting original geographic research projects designed by students, integrating both physical and human geography topics. The course culminates in a Geography Conference that students plan and host to display their work.

GEOG 493. GIS PORTFOLIO. 2 Credits.
Pre-requisites: GEOG 429 or permission of the instructor.
Exit synthesis for the certificate in GIS or related GIS studies. Students will produce two versions of a GIS portfolio highlighting their GIS work, one in hard copy and one on the web using appropriate web publishing and map serving software.

GEOG 495. INTERNSHIP IN GEOGRAPHY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

GEOG 496. EXPERIMENTAL COURSE. 1-5 Credits.

GEOG 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-15 Credits.

GEOG 498. SEMINAR. 1-5 Credits.
Pre-requisites: 15 credits successfully completed in geography or permission of the instructor.
Advanced group study. Discussion topics selected for each seminar.

GEOG 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

GEOG 505. SPATIAL THEORY. 5 Credits.
This seminar focuses on the development and evolution of spatial theory both within and beyond the discipline of geography. Working from a global perspective, students explore and critically compare seminal theoretical contributions and their broader social contexts that underscore specific moments in the history of geographical studies. We investigate the ways in which contemporary western geographic thought is inseparable from the interconnected global networks within which it emerged. Original texts are used as often as possible and form the core of seminar discussion material.
GEOG 510. SEMINAR IN CRITICAL GIS. 5 Credits.
This class explores the evolution of theory and practice in critical GIS and current trends that characterize its content. Students will be exposed to the breadth of geographic thought related to critical GIS as we examine the major paradigms, sub-fields, and epistemological approaches in the field.

GEOG 515. SPATIAL METHODS. 5 Credits.
This course provides advanced experience with the qualitative and quantitative methods of spatial research. Students research, compare and critically apply a variety of geographic methods to different case study scenarios in order to develop proficiency across the spectrum of geographic methods. Priority is given to contemporary digital methods, but older forms are introduced for comparative purposes also. Throughout the course, students build up a suite of methods they then will apply later in the program to their own research.

GEOG 521. GIS FOR SOCIAL SCIENCES. 5 Credits.
This course emphasizes the application of Geographic Information Systems in the Social Sciences, including census data, demographic analysis, social justice and related mapping of social phenomena. Course includes hands-on GIS work in the lab.

GEOG 522. RESEARCH DESIGN. 3 Credits.
Cross listed: ANTH 522.
Provides for the continued development of a practical toolkit with which to conduct applied social science research. Addresses research design elements necessary in areas such needs assessments and program evaluations through techniques such as participatory research, action research, evaluation, assessment and surveying. The course covers development of research proposals for independent, grant funded or contract designs.

GEOG 523. GIS FOR ENVIRONMENTAL SCIENCE. 3 Credits.
This course emphasizes the application of Geographic Information Systems in the Environmental Sciences, including mapping and analysis of topographical, hydrological, geological, biological, and other environmental data. The course includes hands-on GIS work in the lab.

GEOG 524. GIS FOR PUBLIC HEALTH. 5 Credits.
This course introduces students to Geographic Information Systems (GIS) applications in the field of public health. Students learn basic digital mapping and spatial analysis concepts and techniques that can be applied toward the study of the health and wellness of populations. Students gain hands-on experience working with GIS software in a laboratory setting.

GEOG 525. DATA ANALYSIS AND VISUALIZATION. 3 Credits.
Cross listed: ANTH 525.
Pre-requisites: ANTH 522 or GEOG 522.
This course introduces students to data analysis and data visualization. In particular, students will learn basic data analysis approaches, explore their use and apply them to qualitative and quantitative data sets. In addition students will synthesize the results of their data analysis into a variety of data visualization formats.

GEOG 527. DESKTOP MAPPING. 3 Credits.
This course explores the various ways that spatial information is communicated through cartographic and related methods. The course covers both contemporary theories of cartographic visualization and applied digital design strategies. Includes hands-on lab work using GIS and related mapping software.

GEOG 528. GEOGRAPHIC INFORMATION SYSTEMS I. 5 Credits.
Introductory survey of geographic information systems. Focus is on (1) computer techniques for the input, storage, manipulation, analysis and output of spatial data and (2) the social and administrative creation and dissemination of geographic information.

GEOG 531. TOPICS IN SOCIAL JUSTICE. 5 Credits.
Notes: may be repeated for credit when topics differ.
This seminar examines the breadth of research in human geography focused on issues related to social justice. Through an intensive engagement with relevant literature, students will be exposed to a series of select historical and contemporary debates in critical human geography as we examine the ontological, epistemological and practical dilemmas concerning research driven by and concerned with social justice.

GEOG 533. TOPICS IN ENVIRONMENTAL JUSTICE. 5 Credits.
Notes: may be repeated for credit when topics differ.
This seminar examines the breadth of research in human and physical geography focused on issues related to environmental justice. Through an intensive engagement with relevant literature and contemporary data, students will be exposed to a series of select historical and contemporary debates in critical geographic studies as we examine the ontological, epistemological and practical dilemmas concerning research driven by and concerned with environmental justice.

GEOG 536. GIS PROGRAMMING. 5 Credits.
Pre-requisites: GEOG 528.
This is an advanced course in GIS programming concepts and techniques. Students will be exposed to both legacy and contemporary programming languages integrated with GIS packages. Emphasis will be on creating and interpreting scripts using languages supported by current GIS software. The course includes hands-on GIS and programming work in the lab.

GEOG 538. GEOGRAPHIC INFORMATION SYSTEMS II. 5 Credits.
Pre-requisites: GEOG 528.
This course focuses on the design and implementation of geographic information system database structures. Emphasis is on the construction and analysis of contemporary and legacy vector structures, with basic exploration of raster structures. The course includes hands-on GIS work in the lab.

GEOG 548. GEOGRAPHIC INFORMATION SYSTEMS III. 5 Credits.
Pre-requisites: GEOG 528 and GEOG 538.
This is an advanced course in GIS project design and execution. Students will be expected to work independently on a "real-world" GIS project based on either thesis research or an on-going project developed with a community partner. Students will oversee all stages of the project from design to data collection to presentation of results. The course is required for the GIS Certificate program.

GEOG 549. GIS PORTFOLIO. 2 Credits.
Pre-requisites: GEOG 548 or permission of the instructor.
Advanced GIS course for students finishing their graduate degree and/or GIS Certificate program. This class will offer students the opportunity to review and revise previous work, arrange it into a portfolio, provide supporting documentation and metadata, and, optionally, create a web page featuring the portfolio material.

GEOG 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
GEOG 599. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
**GEOG 600. THESIS. 5 Credits.**

*Notes:* may be repeated.

*Pre-requisites:* permission of the instructor, department chair and college dean.

The goal of this course is the successful production of a master’s thesis of defensible quality. The master’s thesis will be the presentation of original research in the field of geography and critical GIS. This document provides partial fulfillment of the MA requirement. This course provides an opportunity to sharpen research, writing and organizational skills under the direction of the student’s graduate committee.

**GEOG 601. RESEARCH PROJECT. 5 Credits.**

*Notes:* may be repeated.

*Pre-requisites:* permission of the instructor, department chair and college dean.

The goal of this course is the successful completion of a master’s research project of defensible quality. The research project will be the culmination of applied research in the field of geography and critical GIS. This research project provides partial fulfillment of the MA requirement for student’s not pursuing the thesis track. This course provides the opportunity to sharpen research, writing, cartographic, advocacy and organizational skills under the direction of the graduate committee.

**GEOG 696. COLLEGE TEACHING INTERNSHIP. 5 Credits.**

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**Geology (GEOL)**

**GEOL 100. DISCOVERING GEOLOGY. 5 Credits.**

*Satisfies:* a GECR for natural sciences, geology.

This course explores the interactions between human beings and their geological environment. The earth is a dynamic planet affected by sudden, violent events such as volcanic eruptions, earthquakes and floods, as well as by slower processes operating over long time spans that create, move, and destroy continents and oceans. Other topics include study of energy, mineral and water resources and their importance to modern society. Topics are presented at a level intended for nonscience majors. Satisfies lab science requirement at most universities.

**GEOL 115. INVESTIGATING EARTH SCIENCE. 5 Credits.**

*Cross listed:* GEOG 115.

*Pre-requisites:* pre-university basic skills in mathematics.

*Satisfies:* a GECR for natural sciences, geology.

For students planning to teach elementary school. Includes inquiry-based earth science investigations that support science instruction outlined in the National Science Education Standards and Washington Essential Academic Learning Requirements.

**GEOL 120. PHYSICAL GEOLOGY - THE SOLID EARTH. 5 Credits.**

*Pre-requisites:* MTHD 104 or equivalent and restricted to the following: Computer Science (BS only), Earth and Space Science, Environmental Science or Geology or by permission of the instructor.

*Satisfies:* the completion of GEOL 120 counts as one course for the GECR in natural sciences, geology; the completion of GEOL 120 and GEOL 121 counts as two courses for the GECR for natural sciences, geology.

Introduction to physical geology for students interested in earth and environmental science. This course covers the origin of the earth, its internal structure and minerals, rocks and volcanoes. Earthquakes, mountains and continental drift are discussed in the context of plate tectonics. The formation of mineral deposits is also covered. Weekly laboratories and one field trip are required.

**GEOL 121. PHYSICAL GEOLOGY - SURFICIAL PROCESSES. 5 Credits.**

*Pre-requisites:* computer literacy, MTHD 104 or equivalent and restricted to the following: Computer Science (BS only), Earth and Space Science, Environmental Science or Geology or by permission of the instructor.

*Satisfies:* the completion of GEOL 121 counts as one course for the GECR in natural sciences, geology; the completion of GEOL 120 and GEOL 121 counts as two courses for the GECR for natural sciences, geology.

Introduction to physical geology for students majoring in geology, earth science or environmental science. This course emphasizes the quantitative analysis of processes that shape the earth’s surface (gravity, wind, water and ice) including weathering and erosion, the creation of sediments and sedimentary rocks and the development of landforms. Energy resources and the concept of earth systems are also explored. Weekly laboratories and one field trip are required.

**GEOL 122. HISTORICAL GEOLOGY. 5 Credits.**

*Pre-requisites:* GEOL 121.

Introduction to earth history for students majoring in geology, earth science, or environmental science. This course covers the diversity of life, catastrophic extinctions, and the effect of biologic change on the environment. The basic principles of stratigraphy, use of stable isotopes to interpret sedimentary environments, and the stratigraphic and tectonic history of the earth are also explored. Other topics include identification of the common fossil groups, survey of the fossil record in the context of geological evolution, and practice using geologic maps. Weekly laboratories and one field trip are required.

**GEOL 196. EXPERIMENTAL COURSE. 1-5 Credits.**

**GEOL 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 2 Credits.**

**GEOL 296. EXPERIMENTAL COURSE. 1-3 Credits.**

**GEOL 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.**

**GEOL 299. SPECIAL STUDIES. 1-5 Credits.**

*Pre-requisites:* permission of the instructor, department chair and college dean.

Topics vary with interest of student and instructor.

**GEOL 311. EARTH MATERIALS. 4 Credits.**

*Pre-requisites:* GEOL 120 and CHEM 151.

This course is an introduction to the materials that comprise the solid earth, including minerals, igneous, sedimentary and metamorphic rocks. The course includes discussions of their occurrence, associations and uses. Methods of identification are stressed during laboratory exercises.

**GEOL 312. CRYSTALLOGRAPHY AND OPTICAL MINERALOGY. 4 Credits.**

*Pre-requisites:* GEOL 311.

This second course of a three-course series covers how to describe the external morphology of well-formed crystals using crystallographic techniques. In addition, the techniques of optical mineralogy using a petrographic microscope are introduced as a tool for identifying rock-forming (silicate) minerals.

**GEOL 313. IGNEOUS AND METAMORPHIC PETROLOGY. 4 Credits.**

*Pre-requisites:* GEOL 311 and GEOL 312.

The third course in a series is a comprehensive study of the classification, description, and origin of igneous and metamorphic rocks. Students will learn about the use of minerals in helping to interpret the geologic and tectonic significance of the rocks in which they are found. The course builds on skills learned in GEOL 311 and GEOL 312 and stresses hand sample and thin section descriptive techniques. Weekly laboratories as well as one weekend field trip are required. Additional field trips may be offered.
GEOL 320. ENVIRONMENTAL GEOLOGY. 4 Credits.
Pre-requisites: GEOL 100, GEOL 120 or GEOL 121.
Relationship of human activities with earth materials and processes, water quality, atmospheric composition, waste disposal, natural resources, the importance of an interdisciplinary approach to environmental problems. Field trips emphasize local environmental problems. Laboratory.

GEOL 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

GEOL 360. GEOLOGIC HAZARDS. 4 Credits.
Pre-requisites: GEOL 100, GEOL 115, GEOL 120, GEOL 121 or GEOG 100 or GEOG 115.
Introduction to geologic hazards affecting humankind; emphasis on earthquakes, volcanism, floods and landslides. Applications to geological site engineering and city/regional planning.

GEOL 380. WORLD RESOURCES AND POPULATION. 5 Credits.
Satisfies: international studies university graduation requirement.
Interaction between population and resource utilization. Renewable and non-renewable energy resources, food and water supply, soil erosion and degradation and deforestation will be related to population growth.

GEOL 390. EARTH SCIENCE TEACHING METHODS. 1 Credit.
Cross listed: GEG 390.
Pre-requisites: GEOL 120, GEOL 121, GEG 314, PHYS 121; EDUC 303 or permission of the instructor. SCED 390 co-requisite.
This course is designed for Earth Science majors planning to teach middle school, junior or senior high school. It includes the development of curriculum and the organization of teaching materials, techniques and evaluation.

GEOL 396. EXPERIMENTAL COURSE. 1-6 Credits.

GEOL 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

GEOL 399. DIRECTED STUDY. 1-5 Credits.

GEOL 408. INVERTEBRATE PALEONTOLOGY. 4 Credits.
Pre-requisites: GEOL 121, GEOL 122 or permission of the instructor.
Principles of paleontology including methods of description and analyses of invertebrate fossils. Emphasis on principles of morphology and evolutionary development of invertebrates and the use of invertebrate fossils in biostratigraphy and paleoecology. Laboratory.

GEOL 411. SEDIMENTOLOGY AND STRATIGRAPHY. 4 Credits.
Pre-requisites: GEOL 122 and GEOL 311.
Study of the origin of sediments and sedimentary rocks for advanced geology majors. Description and interpretation of facies and environments of deposition and classification of clastic and chemical sedimentary rocks is emphasized. Stratigraphic principles, nomenclature and correlation is also treated. Lecture and weekly laboratory.

GEOL 425. GEOLOGY OF EASTERN WASHINGTON. 4 Credits.
Pre-requisites: GEOL 122 or permission of the instructor.
Study of the local geology in lectures and a series of field trips. Includes field projects and techniques used during geologic mapping. Observing and recording geologic data in the field, and presenting it in terms of a written report and a sketch geologic map of a site-specific area.

GEOL 430. STRUCTURAL GEOLOGY I. 4 Credits.
Pre-requisites: GEOL 411.
Analysis of the kinematics and mechanics of rock deformation and an introduction to geologic structures. Laboratory introduces the solution of structural geology problems, the map-based interpretation of geologic structures and the creation of geologic cross sections. Weekly laboratory exercises. Designed to be taken in series with GEOL 431.

GEOL 431. STRUCTURAL GEOLOGY II. 4 Credits.
Pre-requisites: GEOL 430.
Continuation of an introduction to geologic structures from GEOL 430 and an exploration of the plate tectonic setting of geologic structures. Introduction to the field study of geologic problems with weekly field trips that emphasize the collection and analysis of geologic field data to solve structural problems. Weekly field trips and laboratory exercises required.

GEOL 449. GIS SPATIAL ANALYSIS FOR THE ENVIRONMENTAL SCIENCES. 5 Credits.
Cross listed: ENV 449, GEOG 449.
Pre-requisites: GEOG 328, GEOG 323 or ENV 323.
This is an advanced course where students learn to build Geographic Information System models for environmental applications. In the course, students design, collect data, process data and build several spatial models of increasing complexity. Students will learn advanced techniques in Geographic Information Systems including raster processing, analysis methods and layout design and document their projects in a report form and create production quality maps. This course stresses independent project design and the development of problem solving skills.

GEOL 450. KARST AND CAVE GEOLOGY. 5 Credits.
Pre-requisites: GEOL 120, GEOL 121, GEOL 122, GEOL 311.
An advanced examination of karst geomorphology and cavern development, including cave mineralogy and hydrology.

GEOL 455. GEOLOGY OF THE COLORADO PLATEAU. 4 Credits.
Notes: course fee.
Pre-requisites: GEOL 100 or permission of the instructor.
This course is a week-long field study of the rocks and landforms of the Colorado Plateau region, specifically in Arches and Canyonlands National Parks. Geologic evolution and structural geology of the region will be discussed and the ancient sedimentary environments of deposition will be emphasized. A field trip will be held during the week of spring break.

GEOL 462. PRINCIPLES OF GEOCHEMISTRY. 5 Credits.
Pre-requisites: GEOL 311, GEOL 312, GEOL 313 or permission of the instructor.
Abundance of elements in the solar system. Origin, chemical evolution, and composition of the earth; distribution and migration of chemical elements; differentiation history of the earth into crust, mantle and core. Origin and evolution of the hydrosphere and atmosphere. Chemical processes involved in weathering of rocks, chemical sedimentation and diageneis.

GEOL 466. ISOTOPIC TRACERS IN THE ENVIRONMENT. 4 Credits.
Pre-requisites: ≥2.0 in CHEM 153.
This course focuses on the principles and application of radioactive, cosmogenic and stable isotopes as environmental tracers in soil, water, atmosphere and biological materials. Topics include the variations in isotopic composition of natural materials and the processes behind these variations (e.g., fractionation, radioactive decay, mineral dissolution).
GEOL 470. HYDROGEOLOGY. 4 Credits.
Pre-requisites: GEOL 120 or GEOL 121, MATH 142, or permission of the instructor.
Relationship between groundwater and geologic materials, emphasizing quantitative analysis and principles governing groundwater flow. Lecture and weekly lab.

GEOL 475. ENGINEERING GEOLOGY OF SOILS: INTRODUCTION TO GEOTECHNICAL ENGINEERING. 4 Credits.
Pre-requisites: GEOL 313, GEOL 320, GEOL 411 or GEOL 470 or permission of the instructor.
Introduction to theory and lab practice in geotechnical engineering.

GEOL 485. GEOTECHNICAL ENGINEERING OF SOILS AND FOUNDATIONS. 4 Credits.
Pre-requisites: GEOL 475.
This course uses the principles of rock and soil mechanics to evaluate the stability of natural and engineered slopes, aid in design of earthworks and foundations, and plan the construction of dams, levees, aqueducts and other waterworks.

GEOL 490. SENIOR CAPSTONE: GEOLOGY FIELD CAMP. 10 Credits.
Pre-requisites: junior or senior standing and permission of the instructor.
Satisfies: senior capstone university graduation requirement.
This course applies geologic principles to the solution of field problems in the Rocky Mountain fold and thrust belt. This four-week course of study includes geologic mapping, description of stratigraphic relationships, structural analysis, and GPS data collection. Maps, cross sections, and a formal report of the field study are required. Location of the camp is Dillon, Montana. Prerequisites: Junior or senior standing and permission of the instructor. Course fee is to be determined.

GEOL 490A. SENIOR CAPSTONE: WATER AND THE WEST, WATER RESOURCE ENGINEERING IN ARID LANDS. 4 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
This course focuses on the relationships between human activities and water resources in the largely arid western United States. Topics include tectonic and meteorological controls on the distribution and quantity of water, the history of conflict over scarce surface and groundwater resources, and construction dams, aqueducts, and other engineered structures to solve water scarcity problems. Case studies involve examples from the western United States and other countries including dry-land irrigation in Israel, dam building in Egypt and China, and fishery loss in Mexico.

GEOL 490B. CAPSTONE: ENVIRONMENTAL GEOCHEMISTRY. 5 Credits.
Cross listed: ENVS 490.
Pre-requisites: CHEM 152 or permission of instructor.
Satisfies: senior capstone university graduation requirement.
Application of principles of geochemistry to environmental problems, including air and water pollution, water-rock interactions, weathering and soil formation. Origin, distribution and transport of inorganic contaminants in air, water, soils, sediments and plants. The behavior of trace elements in near surface environments.

GEOL 491. SENIOR THESIS. 4 Credits.
Pre-requisites: senior standing and permission of the instructor.
Satisfies: senior capstone university graduation requirement.
Directed research on a geological problem and organization of the results for oral and written presentation. End of program assessment will be required.

GEOL 495. PRACTICUM IN GEOLOGY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Participation in supervised experiences involving acquisition of data or applications of knowledge to help solve geologic problems. Credits earned in this course are not applicable to degree requirements.

GEOL 496. EXPERIMENTAL COURSE. 1-10 Credits.

GEOL 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

German (GERM)

GERM 101. FIRST-YEAR GERMAN I. 5 Credits.
The beginning German sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

GERM 102. FIRST-YEAR GERMAN II. 5 Credits.
Prerequisite GERM 101 or equivalent. The beginning German sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

GERM 103. FIRST-YEAR GERMAN III. 5 Credits.
Pre-requisites: GERM 102 or equivalent.
The beginning German sequence of courses, covering grammar, composition, conversation, and discussion of cultural topics.

GERM 113. SPECIAL TOPICS IN GERMAN. 5 Credits.
Pre-requisites: GERM 102 or equivalent.
A supplemental first-year course, covering grammar, composition and conversation and emphasizing discussion of cultural topics.

GERM 196. EXPERIMENTAL COURSE. 1-5 Credits.

GERM 199. INDEPENDENT STUDY. 1-15 Credits.

GERM 201. SECOND-YEAR GERMAN. 5 Credits.
Prerequisite First-Year German or equivalent. Intensive oral exercises and conversation, written exercises and composition, readings of intermediate difficulty.
GERM 202. SECOND-YEAR GERMAN. 5 Credits.
Pre-requisites: GERM 201 or equivalent.
Intensive oral exercises and conversation, written exercises and composition, readings of intermediate difficulty.

GERM 203. SECOND-YEAR GERMAN. 5 Credits.
Pre-requisites: GERM 202 or equivalent.
Intensive oral exercises and conversation, written exercises and composition, readings of intermediate difficulty.

GERM 296. EXPERIMENTAL COURSE. 1-5 Credits.

GERM 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

GERM 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary according to faculty and student interest.

GERM 305. GERMAN CONVERSATION. 2 Credits.
Pre-requisites: GERM 201 or permission of the instructor.
Concentrated drill in German conversation, discussing such subjects as the culture, civilization and current events of the German-speaking countries.

GERM 310. ADVANCED GRAMMAR AND COMPOSITION. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
Advanced review of grammar, vocabulary building, extensive practice in writing, readings of intermediate/advanced level.

GERM 311. ADVANCED GRAMMAR AND COMPOSITION. 3 Credits.
Pre-requisites: GERM 310 or permission of the instructor.
Advanced review of grammar, vocabulary building, extensive practice in writing, readings of intermediate/advanced level.

GERM 320. GERMAN CIVILIZATION AND CULTURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
An examination of political, social, intellectual and artistic development of German culture from the beginnings to the present day.

GERM 321. GERMAN CIVILIZATION AND CULTURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
An examination of political, social, intellectual and artistic development of German culture from the beginnings to the present day.

GERM 330. SELECTIONS OF GERMAN WRITINGS. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
Surveys various aspects of German writings, such as great themes in German literature, popular literature, essays and biographical writings.

GERM 331. CONTEMPORARY ISSUES. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
Examines major issues in contemporary German-speaking regions. Sample topics: school reform, women's issues, environmental problems, peace movement, foreign workers, reunification, etc.

GERM 381. NATIONALISM AND RACISM IN CENTRAL EUROPEAN FILM. 4 Credits.
Cross listed: HUMN 381.
Pre-requisites: GERM 203.
Satisfies: international studies university graduation requirement.
This course provides the basic elements of film analysis and examines the depiction of nationalism, racism and the legacy of the Nazi past in German-speaking films by German and other Central European directors from the 1970s to the present. Evaluating criteria will differ depending on whether the course is taken for German or humanities credit.

GERM 382. 20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR. 5 Credits.
Cross listed: HIST 382.
Pre-requisites: ENGL 201 or permission of the instructor.
Satisfies: international studies university graduation requirement.
This interdisciplinary course introduces students to central problems in German history and culture, from the end of World War I to the end of the Cold War. Topics addressed include: the impact of World War I on German National Identity; Avant-garde culture in the Weimar Republic; the rise of Fascism and daily life in Nazi Germany; the Holocaust; cultural and political divides between East and West Germany. GERM 383 Readings/Discussion of 20th century Germany (1), is a companion course for German language students.

GERM 383. READINGS/DISCUSSIONS OF 20TH CENTURY GERMANY. 1 Credit.
Pre-requisites: GERM 203.
Discussion course for German students enrolled in HIST 382/GERM 382.
Readings in German include memoirs, autobiographical texts, poems, and short stories that focus on the history, culture, and life experiences of Germans.

GERM 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

GERM 398. SEMINAR. 1-5 Credits.
Pre-requisites: GERM 203 or permission of the instructor.

GERM 399. IND STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

GERM 430. 18TH CENTURY GERMAN LITERATURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
A survey of the major movements and outstanding writers of the Enlightenment, the Storm and Stress, and the Classical Period in the context of their society.

GERM 431. 19TH CENTURY GERMAN LITERATURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
A survey of the major movements and outstanding writers of Romanticism, Realism and/or other movements in the context of their society.

GERM 432. 20TH CENTURY GERMAN LITERATURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
A survey of the major movements and outstanding writers from the turn of the century to 1945 in the context of their society.

GERM 433. CONTEMPORARY LITERATURE. 3 Credits.
Pre-requisites: GERM 203 or permission of the instructor.
A survey of the major movements and outstanding writers of the period after 1945 in the context of their society.

GERM 434. STUDIES IN GERMAN WRITINGS. 3 Credits.
Notes: content varies, may be repeated.
Pre-requisites: GERM 203 or permission of the instructor.
Focus on a specific aspect of German letters and literature, for example, biographies, memoirs and correspondence, popular literature, a particular writer or genre.
HLED 115. WELLNESS FOR LIFE. 3 Credits.
Offers an overview of basic concepts of personal wellness from a holistic perspective. Explores behavior change, nutrition, physical activity, stress management, healthy relationships, environmental health, spiritual health, sexuality, drugs and alcohol, and intellectual health. Students assess their own wellness and develop strategies for behavioral change.

HLED 192. SPORTS SAFETY TRAINING. 3 Credits.
The purpose of the American Red Cross Sports Safety Training course is to provide participants with the necessary skills and knowledge to help provide a safe environment for participation, recognize and treat emergency situations, and understand how to apply preventative measures for health and safety of sports participants.

HLED 193. STANDARD FIRST AID AND SAFETY. 2 Credits.
The American Red Cross CPR/AED for Professional Rescuers and Health Care Providers program is to train professional-level rescuers to respond to breathing and cardiac emergencies in adults, children and infants until more advanced medical personnel take over. Students will earn the American Red Cross CPR/AED for Professional Rescuers and Health Care Providers certification good for two years from the course date.

HLED 194. EMERGENCY RESPONSE. 3 Credits.
The course provides the participant with the knowledge and skills necessary to work as a first responder. In an emergency, first responders help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until more advanced medical practitioners can arrive. The course content and activities will prepare participants to make appropriate decisions about the care to provide in an emergency. The course teaches the skills a first responder needs to act as a crucial link in the Emergency Medical Services (EMS) system.

HLED 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

HLED 200. ADMISSION TO HEALTH AND FITNESS. 2 Credits.
This course is designed to introduce potential majors to the Health and Fitness profession as well as describe the major’s expectations and requirements for being admitted into the program and becoming certified as a K-12 Health and Fitness instructor.

HLED 201. INTRODUCTION TO HEALTH AND WELLNESS. 3 Credits.
This course is designed to be an introduction to health and wellness. Foundations are laid in nutrition, physical activity and fitness, stress management, substance abuse, disease and injury prevention, sexually transmitted diseases, and environmental health issues, among others. In addition, skills are taught to enhance the student’s ability to make health behavior changes.

HLED 250. DRUGS, SOCIETY AND HUMAN BEHAVIOR. 3 Credits.
This course consist of a study of human behavior in the context of drug use, abuse, and addiction. There will be discussions on the physiology of drug consumption, as well as the physical, emotional, psychological, and social affects of various groups of drugs (depressants, stimulants, opiates, hallucinogenics, and narcotics). Prescription drugs, over the counter drugs, steroids, and other supplements will also be discussed.

HLED 256. MEDICAL TERMINOLOGY. 2 Credits.
This course examines the nature and function of the medical language, and the building of medical words from word roots, prefixes, suffixes, and combining forms. This course will prepare students who are entering into medical-related fields of interest.

HLED 293. CPR/AED REFRESHER COURSE. 1 Credit.
The American Red Cross CPR/AED for Professional Rescuers and Health Care Providers program is to train professional-level rescuers to respond to breathing and cardiac emergencies in adults, children and infants until more advanced medical personnel take over. Students will earn the American Red Cross CPR/AED for Professional Rescuers and Health Care Providers certification good for two years from the course date.

HLED 296. EXPERIMENTAL COURSE. 1-10 Credits.

HLED 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Special studies in health education or community health. Selected topics vary according to student and faculty interest.

HLED 300. AFTER-SCHOOL PROGRAMMING. 3 Credits.
Notes: taught spring quarter.
Pre-requisites: PHED 337 and PHED 375 with a grade ≥2.8 or permission of instructor.
This course engages students in how to successfully implement as well as physically be responsible for facilitating an After-School Garden-Based & Outdoor Educational program in collaboration with a local community member.

HLED 365. TEACHING METHODS IN HEALTH. 3 Credits.
Pre-requisites: PHED 365 and PHED 375.
This course covers methods and procedures of teaching health in elementary, junior and senior high schools. It provides an opportunity for practice teaching and development of teaching units for the classroom.

HLED 366. WOMEN’S HEALTH ISSUES. 4 Credits.
Cross listed: WMST 366.
Satisfies: cultural and gender diversity university graduation requirement.
This course will explore the unique personal and social concerns regarding women’s health. Emphasis will be placed on the social and health related issues that women face throughout the life cycle. Discussion will include the effect of gender stratification in the workforce, gender roles in the family unit, female depiction in the media, substance abuse, body image, pregnancy and sexuality and other issues that affect women’s mental, physical and emotional health. Historical dimensions of women’s health will also be explored, including contributions from historically noteworthy women.

HLED 370. PERSONAL AND COMMUNITY HEALTH. 4 Credits.
Pre-requisites: declared Major in Health and Fitness or Public Health.
This course provides an overview and introduction to basic concepts of personal and community health problems, including mental health, nutrition and weight control, diseases, physical fitness, aging, death and dying, sex and reproduction. It also considers health fundamentals important in making health-related decisions.
HLED 372. APPLIED NUTRITION AND PHYSICAL FITNESS. 3 Credits.
This course is an introduction to the field of applied nutrition. The course content brings together information from a variety of fields - biochemistry, exercise physiology, nutrition, medicine and physiology. The students apply that knowledge to understand how what we eat affects not only sport performance but also personal health.

HLED 374. INTRODUCTION TO EPIDEMIOLOGY. 3 Credits.
Pre-requisites: HLED 370 or permission of instructor.
This course examines the major communicable diseases of humans with emphasis upon prevention and control, and it provides an introduction to the modern scientific approach to control of communicable diseases and biostatistics.

HLED 375. GERONTOLOGY. 3 Credits.
Pre-requisites: HLED 201 or permission of the instructor.
This course examines anatomical, physiological, pathological, medical, psychological and sociological factors that impact individuals moving through the aging process. The topics discussed will include the major problems of degenerative and chronic diseases, and an analysis of the physical and physiological deterioration of the body and mind.

HLED 376. CONSUMER HEALTH. 3 Credits.
Consumer health has much to do with the way we live. It deals with the selection of the products and services available in the marketplace that have an impact on health. Discussion includes: advertising, methods of distribution, techniques of selling, and methods of making positive decisions about health products and services.

HLED 380. HEALTH BEHAVIOR CHANGE. 4 Credits.
Pre-requisites: HLED 370 and HLED 382 or permission of instructor.
This course will provide students with the theoretical tools to analyze health-related behaviors and the social, cultural and environmental context in which they occur. An ecological/systems approach will provide the foundation for learning and applying a variety of health behavior theories.

HLED 381. MIND-BODY HEALTH. 3 Credits.
Notes: taught spring quarter.
Pre-requisites: HLED 370 or permission of instructor.
The mind-body interaction has important implications for the way we view health and the practice of health promotion. This course will explore how thoughts and emotions impact health. Stress will be considered through personal inventory and reflection as well as a biological examination of the impact of stress on physical health. Positive psychology and topics related to happiness and resiliency will be explored. Students will have the opportunity to practice common mind-body techniques such as progressive muscle relaxation, meditation, and cognitive behavioral therapy. This course provides knowledge and skills for health professionals to study and apply theories of mind-body medicine and health.

HLED 382. HEALTH DISPARITIES. 4 Credits.
Pre-requisites: declared Public Health Major or permission of instructor.
This course will examine the cultural, socioeconomic, and political factors that contribute to health disparities on a local, national, and global level. Health disparities represent the most important challenge in public health. Social conditions such as poverty, social isolation, segregation, gender and race are associated with chronic diseases and causes of premature death. This course will adopt a systems lens to identify relationships and leverage points to help reduce disparities and improve health across all borders.

HLED 383. ENVIRONMENTS FOR HEALTH. 4 Credits.
Notes: taught spring quarter.
Pre-requisites: HLED 380 or permission of instructor.
This course will examine how the built & natural environment influences health behavior. Students will examine urban design features that impact physical activity such as parks, sidewalks, trails, public transit and connectivity. A key element of this course is a service learning project that allows students to apply their learning by analyzing walkability in their community. Students will also explore the concept of biophilia and how time spent in nature can buffer the effects of certain health conditions such as stress, ADHD and autism.

HLED 395. CO-OP FIELDWORK. 1-15 Credits.

HLED 396. EXPERIMENTAL COURSE. 1-5 Credits.

HLED 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

HLED 399. DIRECTED STUDY. 1-5 Credits.

HLED 411. EMERGENCY RESPONSE INSTRUCTOR. 2 Credits.
Pre-requisites: junior standing and HLED 194.
Teaching methods and procedures in skills as prescribed by the American Red Cross (ARC) Emergency Response Course. Those who qualify may earn the American Red Cross Emergency Response Instructor Certificate valid for 3 years, and the American Red Cross CPR for the professional rescuer certificate valid for 1 year.

HLED 412. EMERGENCY RESPONSE INSTRUCTOR'S LABORATORY PRACTICUM. 3 Credits.
Pre-requisites: HLED 194, HLED 411.
The most current First Aid teaching and skill techniques required by the American Red Cross will be implemented in a laboratory situation. The student will teach an undergraduate level First Aid laboratory class as a student instructor. This instruction will be under supervision of a certified master teacher. Upon successful completion of all requirements the Emergency Response Instructor Certificate will be renewed for one more year.

HLED 440. HEALTH PROMOTION PROGRAM DEVELOPMENT. 4 Credits.
Pre-requisites: HLED 380 or permission of instructor.
In this course students learn how to develop a detailed and evidence-based health promotion program using planning models. Emphasis is placed on developing and understanding: needs assessments, program rationale, mission statements, and goals and objectives. Students also explore theories and models commonly used in health promotion programs and apply these principles in a service-learning project.

HLED 450. HEALTH PROMOTION PROGRAM IMPLEMENTATION AND EVALUATION. 4 Credits.
Pre-requisites: HLED 440.
In this course students learn how to implement and evaluate effective health promotion programs. Emphasis is placed on implementation strategies, advocacy plans, targeted marketing strategies, program budgets and evaluation plans. Students explore effective health communication strategies and ethical guidelines established by the National Commission for Health Education Credentialing.

HLED 475. SEX EDUCATION IN SCHOOLS AND COMMUNITY. 4 Credits.
Pre-requisites: HLED 370 or permission of instructor.
Methods and procedures utilized in the teaching of human sexuality in schools and community health agencies. Opportunity for practice teaching and development of teaching units.
HLED 482. GRANT WRITING IN PUBLIC HEALTH. 3 Credits.
Pre-requisites: HLED 440 and concurrent enrollment in HLED 488 or permission of instructor.
This class will teach students the skills necessary to write grants in the health field. It is an applied class where the students are expected to go through the grant writing process. The skills developed will prepare the students to search and apply for funding from a variety of sources.

HLED 483. ADOLESCENT HEALTH ISSUES. 3 Credits.
Enables parents, teachers and professional staff to identify factors that cause adolescent health problems. Focuses on identifying risk factors and steps to improve adolescent health.

HLED 484. FACTS ABOUT HIV/AIDS. 3 Credits.
Provides basic information about HIV/AIDS, covering areas of concern for lay individuals and working professionals. Students will gain knowledge about transmission and treatment of HIV/AIDS and related issues such as its relationship to children, CPR, first aid, aquatics and impact on society.

HLED 485. MANAGING STRESS. 3 Credits.
Provides valuable information on how stress affects health and teaches students how to manage stress effectively.

HLED 486. PREVENT DISEASE TRANSMISSION. 3 Credits.
Provides basic information about types of infectious diseases with focus on the transmission and prevention of blood-borne pathogens. Students will learn about OSHA regulations and how to protect themselves in the workplace.

HLED 487. TIME MANAGEMENT. 3 Credits.
Provides valuable time management skills for real life applications. Students select from time management options to analyze, strategize, and attack their individual time management concerns.

HLED 488. SERVICE LEARNING IN PUBLIC HEALTH. 12 Credits.
Notes: must obtain prior approval of the Public Health Program Director.
Pre-requisites: concurrent enrollment in HLED 482.
Practical experience designed primarily for public health education majors; however, all students are welcome, and become members of a health-serving agency performing professional tasks along with the full-time staff of the agency.

HLED 490. SENIOR CAPSTONE IN PUBLIC HEALTH. 4 Credits.
Pre-requisites: HLED 450 or permission of instructor.
Satisfies: senior capstone university graduation requirement.
This course is designated as the capstone course for those students majoring in Public Health within the Department of Physical Education, Health and Recreation. An end-of-program assessment will be completed. The course will focus on the major issues, requirements and problems facing health professionals as they enter the field. Using group problem solving techniques, lecture and a final project developed to encompass past knowledge and skills, the students will present a course plan complete with all necessary components to function. A major focus will be for the students to develop their understanding of the group process as it relates to being a member of the team as well as the ability to effectively assess populations and create and implement a curriculum specific to a population. This course is based on the Certified Health Education Specialist (CHES) competencies.

HLED 495. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

HLED 496. EXPERIMENTAL COURSE. 1-5 Credits.
Provides the opportunity to experience limited on-the-job training within health agencies.

HLED 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshops dealing with specific aspects of health education, conducted either during the summer or by extension. These workshops are designed for experienced teachers with interests in health education.

HLED 498. SEMINAR. 1-5 Credits.
Seminars dealing with various aspects of health and health education; designed for advanced students in para-medical sciences and/or experienced teachers.

HLED 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: junior standing or permission of the instructor, department chair and college dean.

HLED 505. SOCIAL AND BEHAVIORAL TRENDS IN PUBLIC HEALTH. 4 Credits.
This course focuses on current trends and issues in public health in the United States. Emphasis is placed on how social determinants (individual behaviors, physical environment, and economic environment) are linked to current health outcomes. The course also examines: current initiatives, disease control practices, health disparities, and national health improvement priorities.

HLED 552. CULTURE, PUBLIC HEALTH PRACTICE AND ELIMINATING HEALTH DISPARITIES. 4 Credits.
This course focuses on the examination of the cultural factors that influence health outcomes. Emphasis will be placed on using targeted interventions in public health to address specific health concerns. The course will also provide an opportunity to critically examine current public health interventions for their efficacy in improving health outcomes.

Health Services Administration (HSAD)

HSAD 196. EXPERIMENTAL COURSE. 1-5 Credits.

HSAD 300. HEALTH CARE ORGANIZATION AND ADMINISTRATION. 4 Credits.
This course provides an introduction to healthcare management. Reviewed are leading practices in healthcare leadership and management. The focuses on the components of these systems, how they interact and their internal and external controls.

HSAD 310. HEALTH CARE SUPERVISION. 4 Credits.
Pre-requisites: HSAD 300 or permission of the instructor.
This course focuses on how supervisors and managers of health services organizations accomplish their tasks and build effective teams. Models of supervision, leadership styles, impact of personal values, relationships and medical staff management are examined with a focus on how to build teams and evaluate performance.

HSAD 315. SEMINAR ON PROFESSIONAL DEVELOPMENT. 1 Credit.
Pre-requisites: junior standing.
This course provides an introduction to professional development. Identified and reviewed are skills commonly associated with professional behavior critical to establishing and demonstrating competence in young professionals. The focus will be developing and enhancing professional behavior.
HSAD 322. HEALTH CARE TECHNOLOGY. 4 Credits.
Pre-requisites: HSAD 300, MISC 211 or permission of the instructor.
This course introduces the student to the technology used in healthcare for administrative, clinical and facility needs. Support systems for healthcare are also discussed. This illustrates the breadth and scope of technology in healthcare and its impact on patients, providers and payers.

HSAD 395. INTERNSHIP. 1-5 Credits.

HSAD 399. SPECIAL STUDIES. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary according to faculty and student interest and need.

HSAD 410. HEALTH LAW REGULATION AND ETHICS. 4 Credits.
Pre-requisites: HSAD 300, HSAD 310 or permission of the instructor.
This course is an introduction to health-related legislation, regulation and certification/accreditation programs. The legal and ethical implications for providers and consumers of healthcare are explored. Topics covered include contracts, fraud and abuse, antitrust, and corporate, criminal and tax law, informed consent, patient rights, medical worker issues and conflict of interest. Ethics, risk management, and corporate compliance, will also be discussed.

HSAD 435. PROCESS IMPROVEMENT IN HEALTH CARE. 4 Credits.
Pre-requisites: HSAD 300, HSAD 310 and HSAD 410 or permission of the instructor.
This course examines the application of quality management strategies by utilizing process improvement in health care settings. There is a focus on problem solving methodologies that utilize team facilitation skills. The student incorporates tools for communication, relationship-building, coordination and collaboration that focus on quality patient centered care with safety as an imperative. The student is exposed to leadership models and given opportunities for hands-on process improvement projects.

HSAD 440. HEALTHCARE RESEARCH DESIGN AND METHOD. 4 Credits.
Pre-requisites: DSCI 245 and HSAD 300 or consent of the instructor.
This course covers the methods used in health services research and evaluation which includes research designs, measurement, methods of analysis and evaluation of published research. The objective of the course is to provide the student with an understanding of the research process and evidence-based research as it relates to health care.

HSAD 445. POPULATION HEALTH MANAGEMENT. 4 Credits.
Pre-requisites: DSCI 245, HSAD 300, HSAD 310, HSAD 440, MISC 211.
This course focuses on population health and on designing and managing health care for the population. It encompasses both population health and managerial epidemiology concepts and tools to improve decisions about the management of health services. It explores effective management of resources to maintain and promote the health of the population.

HSAD 450. INTERNATIONAL PERSPECTIVES ON HEALTHCARE. 4 Credits.
Satisfies: international studies university graduation requirement.
This course evaluates the impact of values and beliefs, types of providers, government, funding and medical technology in the delivery of health care in industrialized, emerging and poor geographic regions outside the United States. It compares the delivery of health care in these geographic areas to each other and to that experienced in the United States to determine best practices and areas for improvement.

HSAD 455. HEALTHCARE BILLING. 2 Credits.
Pre-requisites: HSAD 300, HSAD 310, HSAD 410, HSAD 440.
This course provides an overview of the healthcare billing processes from a variety of healthcare delivery systems both public and private. Systems used in billing, the billing and revenue cycles and application of information for administrative and clinical needs are reviewed.

HSAD 460. LONG TERM CARE ADMINISTRATION. 4 Credits.
Pre-requisites: HSAD 300 or permission of the instructor.
The administration issues of care for long term patients will be addressed with specific discussion on the aged, and primary and extended care of the aged. The peculiar social, cultural, and economic environment will be discussed as each is related to accessibility and availability of health services and the aspects of administration in long term care facilities.

HSAD 470. HEALTHCARE FINANCE. 4 Credits.
Pre-requisites: BUED 302, DSCI 245, HSAD 300, HSAD 310, HSAD 322, HSAD 410, MISC 211.
This course focuses on the practical application of health care finance theory as it applies to the current health care environment. Revenue and expense applications are explored in depth, particularly in relationship to the delivery of health care services. Both private and public healthcare funding are explored. Specific emphasis is placed on understanding the components of the income statement and balance sheet, developing a budget, and using these financial statements for analyzing operational changes.

HSAD 480. FACILITIES AND MAINTENANCE. 2 Credits.
This course is an introduction to facility and maintenance demands in residential settings for long term care. A system for maintaining and improving buildings, grounds and equipment is defined. Environmental living aspects and safety in long term care are discussed. Emergency planning and safety are addressed for long term care settings.

HSAD 486. LONG TERM PRACTICUM 1. 5-12 Credits.
The practicum in the long term care option of the HSAD program serves as a culminating experience for students intending to work in long term care. The practicum is a series of courses that meet the national standards of the National Association of Boards of Examiners for Long Term Care Administrators (NAB) and the Washington State Department of Health Board of Nursing Home Administrators. The tasks, domains, knowledge and skills encompass but are not limited to Client/Resident Services Management, Human Resource Management, Leadership and Governance, Physical Environment Management and Financial Management. This class is part of a series of practicum classes for students to complete 1000 hours.

HSAD 487. LONG TERM PRACTICUM 2. 5-12 Credits.
Pre-requisites: completion of all business and HSAD classes for the major, HSAD 486 and permission of the instructor.
The practicum in the long term care option of the HSAD program serves as a culminating experience for students intending to work in long term care. The practicum is a series of courses that meet the national standards of the National Association of Boards of Examiners for Long Term Care Administrators (NAB) and the Washington State Department of Health Board of Nursing Home Administrators. The tasks, domains, knowledge and skills encompass but are not limited to Client/Resident Services Management, Human Resource Management, Leadership and Governance, Physical Environment Management and Financial Management. This class is the second part of a series of practicum classes for students to complete 1000 hours.
HSAD 488. LONG TERM PRACTICUM 3. 5-12 Credits.
Pre-requisites: completion of all business and HSAD classes for the major, HSAD 486, HSAD 487 and permission of the instructor. The practicum in the long term care option of the HSAD program serves as a culminating experience for students intending to work in long term care. The practicum is a series of courses that meet the national standards of the National Association of Boards of Examiners for Long Term Care Administrators (NAB) and the Washington State Department of Health Board of Nursing Home Administrators. The tasks, domains, knowledge and skills encompass but are not limited to Client/Resident Services Management, Human Resource Management, Leadership and Governance, Physical Environment Management and Financial Management. This class is the third part of a series of practicum classes for students to complete 1000 hours.

HSAD 490. SENIOR CAPSTONE. 4 Credits.
Pre-requisites: HSAD 300, HSAD 310 and HSAD 410.
Satisfies: senior capstone university graduation requirement.
This course examines global and United States public health care issues. This information is put forth in a context that allows health service administration seniors to use the information to better plan, design, and implement programs that are sensitive to the health needs of diverse populations. This course attempts to draw together students’ past class information and experience to identify better ways to implement health care delivery in a variety of settings.

HSAD 495. INTERNSHIP. 5 Credits.
Pre-requisites: HSAD 300, HSAD 310 and HSAD 410 and permission of the instructor, department chair and college dean.
Students learn the day-to-day operation of a health care organization by spending 20 hours a week on-site under direct supervision.

HSAD 496. EXPERIMENTAL COURSE. 1-5 Credits.

HSAD 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

HSAD 498. SEMINAR. 1-5 Credits.

HSAD 499. DIRECTED STUDY. 3-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual study in a field of special interest.

HSAD 500. US HEALTH CARE SYSTEMS. 4 Credits.
Pre-requisites: graduate standing.
This course concentrates on the health care environment and how it impacts on health services administration. Considerable time is spent discussing the effectiveness of the health care system in the United States as it exists today. Topics to be covered include: the various health care delivery models, financing health care, managed care organizations, Medicare and Medicaid, health manpower, single and multi-hospital systems, long-term care, and historical data.

HSAD 500S. HEALTH SYSTEMS. 4 Credits.
This course begins with an examination of the history and philosophy of public health. The course introduces healthcare delivery systems in public and global health and the United States. The systems of care and delivery of services in each area are explored. The history of the development of healthcare in each area is discussed. An overview of the various delivery models, their effectiveness and financing are covered. The course concludes with an exploration of global healthcare delivery, its challenges and financing.

HSAD 510. HEALTH LAW. 4 Credits.
Pre-requisites: HSAD 500.
The objective of the course is to develop in the student an appreciation for the depth and reach of the law in all facets of the health care delivery process. The course will emphasize the impact of the law in private and public health settings. Topics include an introduction to our legal system, professional liability issues related to providers, legal issues in the operation and regulation of health care institutions, and legal issues in the institution-patient relationship as well as the institution-physician relationship.

HSAD 510S. HEALTH LAW AND FINANCE. 4 Credits.
This course focuses on the impact of the law in finance in private as well as public health settings. For law, topics include the legal system, professional liability, operation and regulation in health care settings and relationships of providers, patients, payers and citizens in the provision of services. For finance, both private and public funding is explored along with basic economic principles as they relate to healthcare. Basic statements used in accounting are reviewed for use in analyzing operations and decision support.

HSAD 520. HEALTH REIMBURSEMENT ISSUES. 4 Credits.
Pre-requisites: HSAD 500.
Reimbursement issues are reviewed for two perspectives (1) institutions/providers, and (2) payers and users of health care, such as insurers, business, and consumers. Topics covered from the providers’ perspective include evaluation of one’s financial information for clinical and managerial decisions. Topics covered from the payer’s perspective include financial incentives and disincentives. Implications for efficient and effective delivery of health care services are identified and explored.

HSAD 520S. ADMINISTRATION AND LEADERSHIP IN HEALTH SERVICES. 4 Credits.
This course addresses the many aspects of administration in a healthcare organization. Managing and leading are discussed. The responsibilities of supervision, decision support systems, use of analytics, marketing, media, clinical performance, organizational culture, behavior and performance are examined. The course emphasizes the demands of this fast paced industry.

HSAD 530. SEMINAR ON BUSINESS AND HEALTH. 4 Credits.
Pre-requisites: HSAD 500 and advanced graduate standing or permission of the instructor.
This course examines the role companies and other employers play in the development of health policy and provision of health services pertaining to employee benefits.

HSAD 535. RISK MANAGEMENT AND PROCESS IMPROVEMENT. 4 Credits.
Pre-requisites: HSAD 500, HLED 505, PUBH 510.
This course introduces students to the processes of risk management and process improvement in healthcare. Current models, methods and tools used in both risk management and process improvement throughout the continuum of health care delivery are examined.

HSAD 540. HEALTH POLICY. 4 Credits.
This course discusses major relevant policy issues in the United States healthcare system. Public policy process is reviewed. Healthcare policy impacting private and public entities including Medicare, Medicaid, Department of Defense, Veterans Administration and Indian Health Services are examined.
**HSAD 540S. HEALTH POLICY. 4 Credits.**
This course begins with an overview of common policy perspectives, before moving on to discuss major relevant policy issues in the United States healthcare system and elsewhere. Public policy process is reviewed. Healthcare policy impacting private and public entities including Medicare, Medicaid, Department of Defense, Veterans Administration, Indian Health Services are examined. The course concludes with an examination of influencing policy development, including media and community initiatives to effect change.

**Pre-requisites:** HSAD 540.

**HSAD 541. ADVANCED HEALTH POLICY. 4 Credits.**
**Pre-requisites:** HSAD 540.
This course builds upon HSAD 540 and discusses policy formulation and administrative implementation. A systems approach to viewing issues related to public health policy implementation is examined and global policy issues are reviewed.

**HSAD 545. HEALTH INFORMATICS. 4 Credits.**
This course introduces the fundamentals of health information systems and the management of health information, including health data management, health statistics, biomedical research, quality management and information technology and systems. These elements are discussed in the context of healthcare delivery systems.

**HSAD 550. HEALTH ECONOMICS. 4 Credits.**
This course provides an overview of health economics and examines the flow of funds through the health care system. Economic principles important to health care are discussed and the impact of economics related to influencing individual, organization and community health care decisions is explored.

**HSAD 560. MANAGED CARE SYSTEMS. 4 Credits.**
**Pre-requisites:** HSAD 500, HSAD 520 or permission of the instructor.
An examination of the challenges associated with organizing and managing various types of managed care systems. (Health Maintenance Organizations (HMOs), Preferred Providers Organizations (PPOs), etc.) The course places special emphasis on the organization and management of physicians' practice and the principles of health insurance, including premium development and risk management. Other topics include contractual relationships with hospitals, utilization review, quality assurance systems, and marketing.

**HSAD 595. INTERNSHIP. 1-5 Credits.**
**Pre-requisites:** permission of the instructor, department chair and college dean.

**HSAD 595S. INTERNSHIP. 5 Credits.**
The internship in MPH is intended to serve as a formative and reflective opportunity for students in the program. The organization at which the internship experience occurs is chosen by the student and the organization's needs. An interview is conducted with the site supervisor and student to ensure this will work for both. The interview is complete and both parties agree, then the needed paperwork is started. The internship plan is to address competencies for the internship experience agreed upon by the student, organization and faculty. The internship plan is to be completed and submitted to the instructor with the EWU-Agency Internship agreement and contact information. Each student must sign up on Canvas.

**HSAD 596. EXPERIMENTAL COURSE. 2-5 Credits.**

**HSAD 598. SEMINAR IN HEALTH SERVICES ADMINISTRATION. 4 Credits.**
This course is designed to emphasize the manager's role when conducting grant writing or research within the field of health care. The course will emphasize the managerial applications of survey research and grant writing from both a theoretical and practical perspective. Students will learn to conduct survey research or write a grant during this course with the assistance of the instructor.

**HSAD 598S. SEMINAR IN HEALTH SERVICES ADMINISTRATION. 4 Credits.**
This course is designed to emphasize the manager's role meeting the challenges posed in health delivery systems both public and private. This course draws on the knowledge, skills and competencies gained in previous courses to analyze health system challenges in a variety of settings. This class will explore interprofessionalism as it related to ethics, process improvement, strategic planning and health care leadership.

**HSAD 599. INDEPENDENT STUDY. 1-5 Credits.**
**Pre-requisites:** permission of the instructor, department chair and college dean.

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**History (HIST)**

**HIST 102. WORLD HISTORY: TO 1500. 5 Credits.**
This course surveys the major events, developments and personalities that have shaped the civilizations of the world from the first appearance of Homo sapiens to the start of the Renaissance. A comparative approach will be applied to the great themes of civilization with details from everyday life.

**HIST 103. WORLD HISTORY: FROM 1500. 5 Credits.**
This course surveys the major trends in world history from 1500 to 2000, emphasizing the expansion of Europeans around the globe since Columbus reached the New World and the effects on non-European peoples ever since. A comparative approach will be applied to the great themes of civilization with details from everyday life.
HIST 104. EAST ASIA: TRADITION AND TRANSFORMATION. 5 Credits.  
Satisfies: international studies university graduation requirement.  
The political, social, cultural and other aspects of the Chinese, Japanese  
and Korean heritage from antiquity to the present. The course deals with  
forces which shaped these Asian nations.

HIST 105. WESTERN HERITAGE: ORIGINS TO THE 18TH CENTURY. 5  
Credits.  
Satisfies: GECR for social sciences, list 3, history.  
The origins and early development of the political, social, cultural and  
other aspects of our Western heritage.

HIST 106. WESTERN HERITAGE: 18TH CENTURY TO THE PRESENT. 5  
Credits.  
Satisfies: GECR for social sciences, list 3, history.  
The political, social, cultural and other aspects of the western heritage  
from the 18th century. The course deals with the forces which shape the  
modern world.

HIST 110. AMERICAN EXPERIENCE: A SURVEY. 5 Credits.  
Satisfies: GECR for social sciences, list 3, history.  
A broad survey of unique features of the American experience, this  
course examines the origins and development of the American social,  
economic and political heritage on the domestic and international  
scenes.

HIST 195. INTERNSHIP. 1-5 Credits.

HIST 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 2  
Credits.

HIST 199. SPECIAL STUDIES. 1-5 Credits.

HIST 215. EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO  
THE END OF THE RECONSTRUCTION 1877. 5 Credits.  
Cross listed: AAST 215, HONS 215.  
Satisfies: cultural and gender diversity university graduation requirement.  
Examines the African American experience from African civilizations in  
the 4th century AD through slavery to the end of the Reconstruction Era  
in the United States.

HIST 218. CHICANO HISTORY. 5 Credits.  
Cross listed: CHST 218.  
Satisfies: cultural and gender diversity university graduation requirement.  
A study of Chicano history from the time of the Treaty of Guadalupe  
Hidalgo in 1848, to the present. Specific themes discussed include  
the Mexican American War, the Treaty of Guadalupe Hidalgo of 1848,  
the economic, political and social conditions after the Anglo-American  
conquest of the southwest, Mexican immigration to the U.S., Chicano  
labor history, the Chicano movement and other Chicano themes.

HIST 220. AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO  
PRESENT. 5 Credits.  
Cross listed: AAST 220, HONS 220.  
Satisfies: the GECR for social sciences, list 3, history.  
The study of American history from the perspective of the African  
American experience since the end of the Reconstruction period.

HIST 290. HISTORY TODAY: ISSUES AND PRACTICES. 5 Credits.  
An introduction to history as a discipline, the theoretical issues relevant  
to the discipline today, and the organization of the history profession in  
the United States. Topics to be covered include: an overview of modern  
historiography; why historians interpret the past in different and often  
contested ways; problems of historical method, objectivity, causation,  
periodization and categories of historical analysis (such as nation-state,  
gender, race and class); and publications proessional organizations, and  
careers in history.

HIST 296. EXPERIMENTAL COURSE. 1-10 Credits.

HIST 299. SPECIAL STUDIES. 1-5 Credits.  
Pre-requisites: permission of the instructor, department chair and college  
dean.  
Subjects studied vary according to faculty and student interest.

HIST 300. SPECIAL TOPICS IN HISTORY. 1-5 Credits.  
A series of specialized studies of different areas of history, such as  
conservation, urban history, science, and technology. The topics are  
announced each quarter and may or may not be offered each year.

HIST 301. HISTORY OF THE PRESENT. 5 Credits.  
Satisfies: international studies university graduation requirement.  
The historical background of contemporary problems and events, such as  
the Arab-Israeli conflict. Topics vary with changes in the world situation.

HIST 303. U.S. HISTORY 1607-1877. 5 Credits.  
A study of political, social, cultural, diplomatic, economic, and other  
estates and forces which shaped the S.E. Asia of the present day.  
will be challenged to critically examine the long-term political, social and  
development from its time of English settlement to the end of  
Reconstruction.

HIST 304. U.S. HISTORY 1877-PRESENT. 5 Credits.  
This course is designed primarily, but not exclusively, for history majors  
and minors and required as part of the social studies major core. It  
examines aspects of this nation’s political, economic, cultural, and  
social development from its time of English settlement to the end of  
Reconstruction to the present. Emphasis is also given to the vast  
changes in American culture and society since the Civil War.

HIST 305. PATHS TO THE AMERICAN PRESENT. 5 Credits.  
Pre-requisites: junior or senior class standing.  
An advanced course emphasizing the historical roots of the reform  
tradition, the political system, the American role in world affairs, and the  
evolution of the American social structure.

HIST 306. MODERN EUROPE. 5 Credits.  
A study of political, social, cultural, diplomatic, economic, and other  
issues in Europe of the 19th and 20th centuries.

HIST 310. IMPERIAL CHINA. 5 Credits.  
Satisfies: international studies university graduation requirement.  
This class surveys the imperial era of Chinese history from the Qin  
dynasty to the mid-Qing (221 BC–1800 AD).

HIST 311. COLONIALISM AND NATIONALISM IN SOUTHEAST ASIA. 5  
Credits.  
This is a comparative study of indigenous peoples in Southeast Asia  
and how they have reacted to European, American, Japanese and Soviet  
expansion into this region, focusing on the period 1500 to 2000. Students  
will be challenged to critically examine the long-term political, social and  
economic processes that have shaped the S.E. Asia of the present day.
HIST 313. ASIAN AMERICAN HISTORY. 5 Credits.  
Satisfies: cultural and gender diversity university graduation requirement.  
American history often focuses on the Atlantic migration and its consequences. Not all Americans have European origins. Many immigrants came from Asia. This course with an emphasis on the Pacific migration examines the experience of these Asian immigrants and their descendants in the United States from the 1840s to the present. The discussions give preference to six major ethnic groups: Chinese, Japanese, Filipino, Korean, Vietnamese, and Asian Indian. Their collective history will be studies within the broad context of American history, involving various historical themes such as westward expansion, modern industrialization, urban development, international conflict, immigration policy, labor unrest, reform movement, and cultural exchanges. The purpose of this course is to deepen our understanding of American history as well as our multicultural society.

HIST 315. AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA. 5 Credits.  
Cross listed: AAST 315, HONS 315.  
Satisfies: international studies university graduation requirement.  
A survey of African history from prehistory to the present. Emphasizes earlier African civilizations, extensive contact with the outside world and the formation of African nations.

HIST 316. AMERICAN INDIAN HISTORY I. 5 Credits.  
Cross listed: IDST 316.  
This course introduces students to an overview of American Indian history through major themes which include impact and response to European contact, conquest and colonization, empire building, removal and dispossession from traditional lands, treaty making and the origins of Federal Indian Policy.

HIST 317. AMERICAN INDIAN HISTORY II. 5 Credits.  
Cross listed: IDST 317.  
This course introduces students to an overview of American Indian history from 1887 to the present. Major themes covered in this course include but not limited to questions regarding history as a discipline, origins of indigenous peoples, impacts and responses to colonization and genocide, beginning from assimilationist policies, self-determination, termination and relocation, Red Power movement, gender, sovereignty, identity, land, environment and current issues facing American Indian peoples and communities today.

HIST 320. MIDDLE EASTERN HISTORY AND CULTURE. 5 Credits.  
Cross listed: ANTH 320, GEOG 320.  
Examines the various ethnic, religious and national communities of the Middle East in historical and contemporary context.

HIST 334. THE HISTORICAL GEOGRAPHY OF CANADA. 4 Credits.  
Cross listed: GEOG 334.  
Canada occupies a strategic place in world geography owing to its central location with regard to Europe, Asia and the United States, its resource base, its role in regional and world organizations and the distinctive national characteristics and traditions that its peoples have developed. This course provides an overview of the major geographic regions of Canada based on physical environments, history, settlement patterns, natural resources, transportation and industry, urbanization and cultural and ethnic diversity.

HIST 336. GEOGRAPHIES OF CONFLICT IN THE MIDDLE EAST. 5 Credits.  
Cross listed: ANTH 336, GEOG 336.  
Examines the Middle East and its various ethnic, political, economic, religious and environmental conflicts from a geographic perspective. The course’s holistic combination of geographic and anthropological inquiry will offer insights into how the natural environment and built environment interact and engage with the cultural and political landscapes of the Middle East.

HIST 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.  
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

HIST 341. RENAISSANCE AND REFORMATION. 5 Credits.  
Pre-requisites: HIST 105 or permission of the instructor.  
History of Europe from the 14th through the 16th centuries. This course examines the religious, artistic, and intellectual developments of the period in their social and political context.

HIST 350. WAR AND SOCIETY. 5 Credits.  
Satisfies: international studies university graduation requirement.  
A survey of military technology, strategy and tactics and their relationship to non-military aspects of society from the Middle Ages to the present. Emphasis is on European land warfare, but aerial, naval and non-European aspects are not excluded.

HIST 351. GENDER AND TOTAL WAR. 5 Credits.  
Cross listed: WMST 351.  
This course explores the relationship between social constructions of gender and the history of war in the 20th century. Topics include how gender is used to justify war and the use of gender ideologies in pacifist movements. The course also looks at ways that individual men and women experienced war and war’s effects on the social, sexual, psychological, political and economic aspects of individuals’ lives.

HIST 352. VIETNAM WARS, 1945–1975. 5 Credits.  
An examination of the wars of independence that convulsed Vietnam between 1945 and 1975, including their origins in French colonialism, support for “nation building” in the client state of South Vietnam after the defeat of the French, the Cold War decisions for military intervention by the United States, French, U.S., and Vietnamese strategies for fighting the wars, and the effects produced by the wars on both Vietnamese and American society.

HIST 357. RUSSIA TO 1905. 5 Credits.  
Pre-requisites: junior standing.  
The history of Russia from state foundation to the 1905 revolution. Major topics include: Russia’s position between East and West; social and cultural developments; efforts at political and social reform; and the creation of the revolutionary movement.

HIST 360. HISTORY OF SPAIN. 5 Credits.  
A history of Spain from pre-Roman times to the present, with special emphasis on the Imperial Hapsburg years, the Bourbon Enlightenment, and the Napoleonic era. Implicit inclusion of the concurrent developments of Western civilization.

HIST 365. LATIN AMERICAN HISTORY. 5 Credits.  
Satisfies: international studies university graduation requirement.  
Covers Spanish and Portuguese conquests in the Western hemisphere and the formation of a new civilization. The Hispanic colonial centuries, the revolutions for independence and subsequent experiences with dictatorships and democracy punctuate dramatic and distinct histories.
HIST 373. HIST OF AMERICAN WILDERNESS. 5 Credits.
The course explores the ways men and women have lived in and thought about their natural environment in the United States. It begins with the colonists, who thought of the wilderness as a realm to conquer, and concludes with the contemporary American environmentalists, who seek to preserve the wilderness.

HIST 382. 20TH CENTURY GERMANY, FROM WORLD WARS TO COLD WAR. 5 Credits.
Cross listed: GERM 382.
Pre-requisites: ENGL 201 or permission of the instructor.
Satisfies: international studies university graduation requirement.
This interdisciplinary course introduces students to central problems in German history and culture, from the end of World War I to the end of the Cold War. Topics addressed include: the impact of World War I on German national identity; Avant-garde culture in the Weimar Republic; the rise of fascism and daily life in Nazi Germany; the Holocaust; cultural and political divides between East and West Germany.

HIST 389. PUBLIC HISTORY. 5 Credits.
Pre-requisites: HIST 110 and prior permission of the instructor.
Research using regional public and private collections to prepare both the general historian and the urban and regional planner for service in the fields of local history, museology and historic preservation. Required of students in public history field.

HIST 390. HISTORIAN AS DETECTIVE. 5 Credits.
Pre-requisites: HIST 290 or HIST 389 and junior standing; or permission of instructor.
This seminar is designed to help advanced history students develop the skills needed to conduct primary-source research and write successful papers. This course prepares students for work in other advanced history courses, in the history capstone course, writing papers for academic conferences and for graduate study in history and related fields.

HIST 392. WOMEN IN THE AMERICAN WEST. 5 Credits.
Cross listed: WMST 392.
Pre-requisites: junior standing.
This course examines the lives of frontier women using a variety of primary sources (letters, diaries, oral histories), as well as secondary sources (books, articles, movies, tapes).

HIST 394. WOMEN IN AMERICAN HISTORY. 5 Credits.
Cross listed: WMST 394.
Satisfies: cultural and gender diversity university graduation requirement.
Prerequisite: junior standing. Brings to life and surveys the accomplishments of the lost women’ of our past from colonial times to the present. Society’s definition of the nature of women and their proper roles is examined as well as the actual life conditions of women and the social and economic functions they performed.

HIST 395. HISTORY INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
An opportunity for history students to work with historical agencies. Individual learning and career development contact is coordinated through the EWU Center for Extended Learning.

HIST 396. EXPERIMENTAL COURSE. 1-5 Credits.

HIST 398. SEMINAR. 1-5 Credits.

HIST 399. DIRECTED STUDY. 1-10 Credits.

HIST 405. WOMEN AND MEN IN HISTORY. 1 Credit.
Cross listed: WMST 405.
This course will deal with the placing of women and men within history. A comparative analysis will be made of the historical treatment given to both women and men. Using American history as an example, the workshop will set forth principles that will effectively help the classroom teacher create a gender balanced course and the student to recognize gender balance in history education. Attention will be given to non-sexist textbooks, audiovisual materials and testing.

HIST 406. DARWIN AND HIS DISCONTENTS. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
This course introduces the Evolution-Creation controversy, including the subfields of intellectual, cultural, scientific, legal, religious and political history. The course includes precursors to Darwin, Darwin’s discovery of evolution through natural selection, evolution’s reception by scientific and religious communities, the modern synthesis of evolutionary biology, legal challenges to teaching evolution and creationism in public schools, intelligent design and Kuhnian philosophy of science.

HIST 407. HOMETOWN HISTORY. 5 Credits.
Pre-requisites: HIST 110 and permission of instructor.
This course prepares students for jobs in public history. Students research and investigate problems in the practice of local history. The course is tailored for students specializing in public history.

HIST 409. ORAL HISTORY. 5 Credits.
Pre-requisites: junior standing and permission of the instructor.
This course provides a solid foundation in the ethics and practice of oral history. Students learn the steps involved in co-creating primary historical documents through personal interviews. All students are required to prepare an interview suitable for preservation in a local archival repository.

HIST 410. CHINA IN 19TH AND 20TH CENTURIES. 5 Credits.
A political, economic, and diplomatic consideration of China from the late Qing Dynasty, with particular emphasis on the rise of Chinese nationalism and communism as an aftermath of Western and Japanese imperialism in China.

HIST 411. DEMOCRACY AND HUMAN RIGHTS IN ASIA. 5 Credits.
This course examines the pitfalls, challenges and successes of using Western standards and practices for judging Asian governments. By understanding the history of government, crime and punishment, women’s roles, and relations between rulers and the ruled over the past 2,000 years in East and Southeast Asia, a better understanding of the complexity of these issues will result.

HIST 412. ANCIENT ALIEN AND ALTERNATIVE HISTORY THEORIES. 5 Credits.
Pre-requisites: ENGL 201.
This course examines a variety of megalithic structures through three lenses: the orthodox, the extreme alternatives and a middle ground between the two. The course is an intellectual exercise challenging students to think critically about how our knowledge of the remote human past is neither fixed nor stagnant.

HIST 416. MODERN JAPAN. 5 Credits.
Satisfies: international studies university graduation requirement.
History of Japan as traditionalism is modified and the modern nation emerges, from the 17th century to the present.
HIST 425. GREEK HISTORY TO 400 BC. 5 Credits.
Ancient Greece from earliest times to 400 B.C. The art, archaeology, and history of the Golden Age of Athens.

HIST 426. HELLENISTIC GREECE. 5 Credits.
The history of ancient Greece from 400 B.C. to 30 B.C. This course will focus on Alexander the Great and the results of his conquests. The course covers the period from the end of the Peloponnesian War to the conquest of the East by Rome.

HIST 427. ROMAN REPUBLIC. 5 Credits.
The course begins with the earliest settlements in Italy and follows the Western Greeks, Etruscans, Carthage and the foundations of Rome to 30 B.C. the beginning of the reign of Augustus.

HIST 428. ROMAN EMPIRE. 5 Credits.
The history of Rome from Augustus to Constantine the Great (30 B.C. - 337 A.D.) The course includes cultural as well as political developments.

HIST 429. ANCIENT NEAR EAST. 5 Credits.
An intensive study of the ancient Near East including Mesopotamia, Egypt, the Indus Valley, and Assyria.

HIST 430. HISTORY OF ENGLAND TO 1603. 5 Credits.
Various aspects of English history from the Roman conquest to 1603. Attention is given to social, cultural, economic, and constitutional developments.

HIST 431. HISTORY OF ENGLAND 1603-1870. 5 Credits.
A history of England from 1603 to the late Victorian period, including a study of the cultural, economic and constitutional developments of the period.

HIST 432. MODERN BRITAIN SINCE 1870. 5 Credits.
From Victorian England, this course includes a consideration of the 19th century background. Stress is on the transition of Great Britain from the leading European naval, imperial and commercial power to a less certain position today in relation to Europe and the world.

HIST 433. BRITISH EMPIRE SINCE 1850. 5 Credits.
FALL/SPRING-ALTERNATE YEARS From Victorian England to the aftermath of World War II, this course examines British Imperialism from its peak through the years of decolonization.

HIST 434. IRISH HISTORY AND CULTURE. 5 Credits.
Cross listed: ANTH 435, GEOG 436.
Pre-requisites: 5 credit hours of anthropology or 5 credit hours of history or advanced standing with permission of the instructor.
This course examines various aspects of Irish history and culture from prehistory to the present. Attention is given to religious, social, cultural, economic and political institutions and developments.

HIST 436. POLITICS OF CULTURE: ISRAEL AND PALESTINE. 5 Credits.
Cross listed: ANTH 436, GEOG 436.
Examines the role of culture in the political struggles between Israelis and Palestinians. Explores the influence of national, religious, ethnic and historical narratives in the conceptualization of the Israeli-Palestinian conflict. This course will consider how a detailed knowledge of these “politics of culture” can provide meaningful insights to potential avenues of cultural reconciliation and, ultimately, a more peaceful environment for Israelis and Palestinians.

HIST 437. WOMEN AND ISLAM. 5 Credits.
Cross listed: ANTH 437, GEOG 437, WMST 437.
Pre-requisites: junior or senior standing.
This course examines the status and identity of women in Islamic communities throughout the world and assesses how different interpretations of Islam, as a simultaneous religious, social, cultural, political and economic system, influences perceptions of women within Islamic communities. It further considers the perceptions of Islam vis-à-vis women and Islamic women themselves by non-Muslim communities.

HIST 438. PEACE, VIOLENCE AND CULTURE. 5 Credits.
Cross listed: ANTH 438, GEOG 438.
Pre-requisites: junior or senior standing.
This course is a collective exercise in critical thinking on the intersection and interaction of peace, violence and culture. It explores the cultural dimensions of peace and violence, including the role of culture in defining and understanding the manifestation and enactment of peace and violence both by and against individuals as well as groups.

HIST 440. HISTORY OF WORLD WAR I. 4 Credits.
Pre-requisites: basic skills clearance in English composition or permission of the instructor.
The history of World War I, including the campaigns and major battles in all theaters, the technology, the diplomacy, and the impact on the politics, society, economy, industry and other aspects of various home fronts.

HIST 441. HISTORY OF WORLD WAR II. 4 Credits.
Pre-requisites: basic skills clearance in English composition or permission of the instructor.
The history of World War II, including the campaigns and major battles in all theaters, the war in the air and at sea, the technology, the diplomacy, and the impact of the war on the politics, society, economy, industry, and other aspects of various home fronts.

HIST 442. MODERN RUSSIA SINCE 1870. 5 Credits.
This course surveys Russian history from the last years of the Romanov dynasty to the present. Attention will be given to Russian society, economy, politics, and culture.

HIST 443. MODERN JAPAN SINCE 1870. 5 Credits.
This course surveys the history of Japan since 1870 with emphasis on the Meiji period and World War II. Students will examine the evolution of the modern Japanese state and society in the context of the modern world.

HIST 444. HISTORY OF MODERN GERMANY. 5 Credits.
History of Germany in the 19th and 20th centuries.

HIST 445. HISTORY OF MODERN FRANCE. 5 Credits.
This course surveys French history since 1789, covering the French Revolution, the rise of Napoleon, and the development of modern France. The course examines the political, social, and cultural developments of France during this period.

HIST 446. DIPLOMATIC HISTORY OF EUROPE, 1914 TO THE PRESENT. 5 Credits.
Satisfies: international studies university graduation requirement.
European diplomatic history from World War I to the present.

HIST 447. 20TH CENTURY RUSSIA. 5 Credits.
Russia in a century of unrest. The course will explore the intent and results of revolution, including the Marxist victory in 1917 revolution from above.

HIST 448. FRENCH REVOLUTION AND NAPOLEON. 5 Credits.
The history of the French Revolution and Napoleon, from the development of conditions leading to the Revolution through the Congress of Vienna. Emphasizes political, military and diplomatic developments.

HIST 449. MODERN ITALY. 5 Credits.
This course surveys the history of Italy since unification in 1861, focusing on the development of a modern nation-state and its place in the European and global contexts.

HIST 450. MODERN SPAIN. 5 Credits.
This course surveys Spanish history from the end of the Spanish-American War to the present, focusing on key events such as the Spanish Civil War and Franco’s dictatorship.

HIST 451. MODERN EASTERN EUROPE. 5 Credits.
This course surveys the history of Eastern Europe from World War II to the present, focusing on key events such as the Soviet occupation of Eastern Europe and the fall of communism.

HIST 452. MODERN LATIN AMERICA. 5 Credits.
This course surveys the history of Latin America from the 19th century to the present, focusing on key events such as the revolutions in Mexico and Cuba and the Cold War.

HIST 453. MODERN ASIA. 5 Credits.
This course surveys the history of Asia from the 19th century to the present, focusing on key events such as the rise of Japan and the impact of the Cold War.

HIST 454. HISTORY OF THE TWENTIETH CENTURY. 5 Credits.
This course surveys the history of the 20th century, focusing on key events such as the two World Wars, the Cold War, and the rise of global capitalism.

HIST 455. HISTORY OF THE TWENTY-FIRST CENTURY. 5 Credits.
This course surveys the history of the 21st century, focusing on key events such as the wars in Iraq and Afghanistan, the global financial crisis, and climate change.

HIST 456. HISTORY OF MODERN CANADA. 5 Credits.
This course surveys the history of Canada from Confederation to the present, focusing on key events such as World War II and the Quiet Revolution.

HIST 457. MODERN SOUTH AMERICA. 5 Credits.
This course surveys the history of South America from the 19th century to the present, focusing on key events such as the revolutions in Chile and Argentina and the Cold War.

HIST 458. MODERN CHINA. 5 Credits.
This course surveys the history of China from the end of the Qing dynasty to the present, focusing on key events such as the Cultural Revolution and the rise of Deng Xiaoping.

HIST 459. MODERN JAPAN. 5 Credits.
This course surveys the history of Japan from the end of World War II to the present, focusing on key events such as the rise of the
to the thought of their day.

HIST 460. HISTORY OF MEXICO. 5 Credits.
This course surveys the history of Mexico from pre-conquest times to the present, focusing on key events such as the Mexican Revolution and the Cold War.

HIST 461. COLONIAL LATIN AMERICA. 5 Credits.
An outline of the Spanish and Portuguese conquests in the Western hemisphere, and the two countries’ political, economic, and social development. An emphasis upon the process by which they attained independence.

HIST 462. MODERN MEXICO. 5 Credits.
This course surveys the history of Mexico from the Revolution to the present, focusing on key events such as NAFTA and the drug war.

HIST 463. CULTURAL HISTORY OF LATIN AMERICA. 5 Credits.
Focuses on the evolution of institutions in Hispanic America related to the thought of their day.

HIST 464. HISTORY OF MEXICO. 5 Credits.
A study of Mexico from pre-conquest times to the present. Attention is given to social, cultural, and political developments with special emphasis on the National Period.
HIST 465. SLAVERY IN THE NEW WORLD. 5 Credits.
Cross listed: AAST 465.
This course traces new world slavery from its origins in the islands off the west coast of Africa to the end of slavery in United States, Cuba and Brazil in the late nineteenth century. Topics covered include the Atlantic slave trade, the effects of the slave trade on Africa, the Haitian Revolution, slavery and the Enlightenment philosophies, the profitability of slavery and the abolition movement.

HIST 466. SLAVERY IN THE U.S.. 5 Credits.
Cross listed: AAST 466.
This course covers the rise and fall of slavery in the United States and its colonial antecedents. Topics include the transition from indentured servitude to slavery in the Chesapeake in the 1680s, the role slaves played on both sides of the Revolutionary War, the rise of the Cotton Kingdom, the political controversy over slavery, the rise of the abolition movement and the disintegration of slavery during the Civil War.

HIST 468. HISTORY OF MODERN AMERICAN WOMEN. 5 Credits.
Cross listed: WMST 468.
Pre-requisites: junior standing.
This course explores the history of women in America from the 1900s to the present through the use of a wide range of contemporary documents that allow a variety of women of the immediate past to speak for themselves.

HIST 469. BUILT ENVIRONMENTS OF NORTH AMERICA: SYMBOL AND STRUCTURE. 3 Credits.
Cross listed: GEOG 469, PLAN 469.
Pre-requisites: GEOG 101 or permission of the instructor.
This course is a survey of North American architectural landscapes from the colonial period to the present. This course will examine such topics as the diffusion of major styles of residential, commercial and public architecture across the continent, the relationship of geology and climate to the availability of building materials and technology and the effect of these on the human built environment, especially in the Pacific Northwest. Special emphasis will be placed on the visual differentiation of building styles and the symbolic, political and philosophical foundations of architectural form and decoration.

HIST 470. COLONIAL AMERICA, 1607-1763. 5 Credits.
The development of American life, thought and institutions from the earliest settlements to the end of the French and Indian War. Topics include Puritanism, colonial wars, Native Americans and the family.

HIST 471. AMERICAN REVOLUTION, 1763-1824. 5 Credits.
Surveys the history and consequences of the American Revolution. Course begins with the colonies in the British imperial system, explores the reasons for revolt and covers the military, political and social history of the Revolution. Students investigate the need for and the nature of the new constitution, then move forward through the presidencies of the revolutionary generation to the Monroe Doctrine and the election of 1824.

HIST 473. THE AGE OF JACKSON. 5 Credits.
The causes, course, and effects of the Jacksonian Revolution, especially in their effect upon the development of the course of American nationality.

HIST 475. CIVIL WAR AND RECONSTRUCTION. 5 Credits.
The struggle over slavery and attendant problems. Particular emphasis is given to the philosophy and statesmanship of Abraham Lincoln.

HIST 477. CONTEMPORARY AMERICA. 5 Credits.
A consideration of United States history in recent decades. Attention is given to the United States' position as a world leader, the interplay of foreign and domestic affairs and the oscillations of U.S. policy in recent times.

HIST 480. NATIVE AMERICAN ORAL TRADITION. 5 Credits.
Cross listed: IDST 480.
Pre-requisites: junior standing.
This course expands the students' understanding of the past through the inclusion of indigenous perspectives. Students will examine the use of oral traditions/histories, particularly the contestation regarding their validity as legitimate, historical sources. This course also examines the evolution of tribal and oral traditions from early records of their existence to the modern issues surrounding their use and maintenance. Students are introduced to the issues, ethics and protocol when working with tribal members and communities.

HIST 481. HISTORY OF AMERICAN FOREIGN RELATIONS FROM 1898. 5 Credits.
A topical approach to the expansion of America's open-door empire from 1898 to the present, with emphasis on the patterns of U.S. intervention around the globe, the impact of World Wars, and the history of the Cold War.

HIST 482. HISTORY OF AMERICAN WEST. 5 Credits.
This course surveys the development of the American West from the wilderness to a distinctive region. It emphasizes the place and peoples, and examines the region's role in the history of the United States.

HIST 483. HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST. 5 Credits.
An intensive study of the principal events and institutions of the four states comprising the Pacific Northwest and especially of their relations to the Federal Union. A comparative analysis of British Columbia is also included.

HIST 487. ECONOMIC HISTORY OF THE UNITED STATES. 5 Credits.
Cross listed: ECON 412.
Pre-requisites: junior standing.
Economic development of the United States from the early colonial period to the present; explorations, westward movement, labor, rise of great industries, world trade, and post-war economic problems.

HIST 490. SENIOR CAPSTONE SEMINAR. 5 Credits.
Pre-requisites: senior standing, declared history major, HIST 290 or HIST 389 and HIST 390 or instructor permission.
Satisfies: senior capstone university graduation requirement.
Senior Capstone Seminar includes a major history paper and end-of program assessment.

HIST 493. CERTIFICATE SYNTHESIS AND ASSESSMENT. 1 Credit.
Pre-requisites: permission of the instructor.
Advised by the certificate coordinator, the student will compile an assessment portfolio of significant assignments completed during the relevant certificate program at EWU. The student will also produce a paper addressing her or his experiences in the certificate program as a means of guided academic and/or career planning. Taken during the term in which the student expects to complete the requirements for the certificate, this independent study course allows the student to engage in portfolio development and summative assessment of the certificate program.
HIST 495. HISTORY INTERNSHIP. 1-5 Credits.  
Pre-requisites: permission of the instructor, department chair and college dean.  
An opportunity for history students to work with historical agencies.  
Individual learning and career development contact is coordinated through the EWU Distance and Extended Learning Office.

HIST 496. EXPERIMENTAL COURSE. 1-10 Credits.

HIST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

HIST 498. SEMINAR. 1-5 Credits.

HIST 499. DIRECTED STUDY. 1-15 Credits.  
Pre-requisites: permission of the instructor, department chair and college dean.  
Directed study and research projects in various fields of history. Limited to senior and graduate students.

HIST 501. INTRODUCTION TO HISTORICAL STUDIES. 5 Credits.  
A seminar on the nature and problems of historical study with an emphasis on recent historiographical trends and research methods.

HIST 506. CULTURE AND POLITICS IN ANCIENT GREECE. 5 Credits.  
This is a reading course in ancient Greek history. Students will be exposed to both primary or ancient sources, as well as the most recent or pertinent scholarship in this area. Contents will focus upon economics, war and religion with special emphasis placed upon the development of the world's first democracy.

HIST 508. FALL OF THE ROMAN REPUBLIC. 5 Credits.  
This course will explore the unique factors within the Roman social structure, which encouraged ceaseless warfare, leading to the accumulation of the largest empire of the ancient world. This course will explore the fact that military necessity allowed the creation of a republican state, while military reality allowed that republican state to be torn down and a totalitarian dictatorship to emerge.

HIST 512. BRITISH HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
The study and analysis of a number of works by different authors representing a variety of views and interpretations of British history.

HIST 515. INTRODUCTION TO WORLD HISTORY. 5 Credits.  
Pre-requisites: HIST 501 or permission of the instructor.  
Since the establishment of the World History Organization in 1982, World History has emerged as a prominent subfield in the broader discipline of history. This reading seminar provides an understanding of the methodological and theoretical parameters of this new and exciting historical direction.

HIST 517. ISLAM IN CONTEMPORARY PERSPECTIVE. 5 Credits.  
Pre-requisites: HIST 501 or permission of the instructor.  
The course briefly considers the historical rise of Islam as a set of social, cultural, religious and political practices and then delves deeper into how these beliefs, traditions and practices interact with the contemporary, globalized world. In addition, the course examines and critiques conventional notions of Islam in order to find ways to create bridging dialogues between Muslim and non-Muslim communities.

HIST 525. TOPICS IN GERMAN HISTORY. 5 Credits.  
Pre-requisites: permission of instructor.  
This graduate reading course introduces students to a central topic in German History from the Middle Ages to the present. Such topics include: the Holocaust and modern Genocide; Popular Revolutions; Gender, Cities and Urban life; Capitalism; Consumer Society; Modernism in culture and the arts. Students will read important English-language scholarship on the quarter’s topic, complimented by additional readings on the historiography of the topic from European and/or global perspectives.

HIST 527. COMPARATIVE SOCIAL HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
A reading seminar focused on the sources and methods used to understand the historical significance of ordinary people's lives.

HIST 530. LATIN AMERICAN HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
Readings on problems in Latin American History from colonial times, with the object of expanding the student's understanding of factual material as well as interpretation and bibliography.

HIST 532. AMERICAN COLONIAL AND REVOLUTIONARY HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
A survey of problems of research and interpretation in American History to 1783. Prerequisite: permission of the instructor.

HIST 534. 19TH CENTURY AMERICA. 5 Credits.  
Pre-requisites: permission of the instructor.  
A survey of problems of research and interpretation in the era from Jackson through Reconstruction, with the objective of preparing the student to conduct original research in the field.

HIST 536. CONTEMPORARY AMERICAN HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
Readings in selected topics relating to contemporary America.

HIST 538. HISTORY OF THE AMERICAN WEST. 5 Credits.  
Pre-requisites: permission of the instructor.  
The participants in this readings course will be expected to investigate and analyze original documents and secondary accounts.

HIST 540. WOMEN IN U.S. HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
Readings and problems in the history of women in the United States. The course is designed to prepare students for more specialized research in the field.

HIST 542. PUBLIC HISTORY. 5 Credits.  
Pre-requisites: permission of the instructor.  
Research using regional public and private collections to prepare both the general historian and the urban and regional planner for service in the fields of local history museology, and historic preservation. Required of students in public history field.

HIST 544. DIGITAL HISTORY. 5 Credits.  
Readings on developments in the digital turn of history, preparing students to be historians in the 21st century.

HIST 546. CULTURAL RESOURCE MANAGEMENT. 5 Credits.  
This course will acquaint students with cultural resources management through reading, completion of projects, and written assignments.

HIST 548. INTRODUCTION TO ARCHIVES. 5 Credits.  
This course will provide a historical background to archival administration as practiced in the United States.
HIST 550. GRADUATE RESEARCH SEMINAR. 5 Credits.
**Pre-requisites**: permission of the instructor.
The Research Seminar introduces graduate students to advanced
techniques in primary source research in history. With guidance from
the instructor and appropriate faculty members, students must find a
suitable topic for research, complete with a historiographical justification.
Students must conduct primary source research on their topic with
special focus on printed sources--periodicals, newspapers, diaries, and
manuscripts--available through interlibrary loan. Students will prepare a
historiographical essay, an annotated bibliography, and a detailed outline
of their project. Moreover, students must give evidence of substantial
research in the relevant primary sources.

HIST 590. HISTORICAL WRITING AND EDITING. 5 Credits.
This course sharpens students' research and writing skills and leads
them into the realm of actual writing, editing and typesetting of historical
articles for publication. The key feature of the class is a hands-on
approach to historical publication.

HIST 595. INTERNSHIP. 1-15 Credits.

HIST 596. EXPERIMENTAL COURSE. 1-10 Credits.

HIST 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5
Credits.
**Notes**: only one workshop course for up to 3 credits may be used to fulfill
graduate degree requirements.

HIST 598. GRADUATE WRITING SEMINAR. 5 Credits.
**Pre-requisites**: HIST 550 and permission of the instructor.
Writing seminar involving presentation and critique of research papers.

HIST 599. INDEPENDENT STUDY. 1-5 Credits.
**Pre-requisites**: permission of the instructor, department chair and college
dean.

HIST 600. THESIS. 1-15 Credits.
**Pre-requisites**: permission of the instructor, department chair and college
dean.
A bound research study conducted as partial fulfillment of a master's
degree under the direction of a graduate committee.

HIST 601. RESEARCH PROJECT. 1-15 Credits.
**Pre-requisites**: permission of the instructor, department chair and college
dean.
A research study in lieu of a bound thesis conducted as partial fulfillment
of a master's degree under the direction of a graduate committee.

HIST 694. HISTORY INTERNSHIP. 2-5 Credits.
**Notes**: graded Pass/No Credit.
**Pre-requisites**: permission of the department chair.
This program will stress application of history to potential vocational
opportunities by providing supervised work experiences in cooperating
agencies. Internships may be created in several fields; one such program
will be a museum internship; others may be created in archives and
libraries.

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**Honors (HONS)**

HONS 101. THE INTELLECTUAL TRADITION: THE ANCIENT WORLD. 8
Credits.
**Satisfies**: GECR as one humanities course and one social sciences
course.
Introduces major ideas of Western and Eastern thought—ideas that find
expression in great works of ancient literature, philosophy, history, drama,
art and science. Readings, class discussions and written assignments
help provide understanding of these ideas through close, detailed study
of important primary texts and through reading of secondary works that
establish historical and cultural background for the primary texts.

HONS 102. THE INTELLECTUAL TRADITION: MIDDLE AGES THROUGH
THE REFORMATION. 8 Credits.
**Satisfies**: GECR as one humanities course and one social sciences
course.
Introduces major ideas of Western thought during the late Middle Ages
through the Renaissance and Reformation—ideas that find expression
in great works of literature, philosophy, history, drama, art, music and
science. Readings, class discussions and written assignments help
provide understanding of these ideas through close, detailed study
of important primary texts and through reading of secondary works that
establish historical and cultural background for the primary texts.

HONS 103. MODERN SCIENCE AND SOCIETY. 8 Credits.
**Satisfies**: GECR as one social sciences course and with HONS 104
satisfies one natural sciences course.
Introduces major ideas of natural and social scientists of the 19th and
20th centuries. Readings, class discussions and written assignments
help provide understanding of these ideas through close, detailed study
of important primary texts and through reading of secondary works which
establish historical and cultural background of the primary texts.

HONS 104. HONORS NATURAL SCIENCE LAB. 1 Credit.
**Notes**: the completed sequence of HONS 103 and HONS 104 satisfies the
GECR as one natural sciences course and HONS 103 alone satisfies one
natural sciences course.
**Pre-requisites**: HONS 103 (must be taken concurrently).
The Honors Lab employs the scientific method to investigate and process
physical, statistical and research generated data. Experiments are
generally student designed.

HONS 213. ART IN THE HUMANITIES. 5 Credits.
**Cross listed**: ART 213, HUMN 213.
**Satisfies**: GECR for humanities and fine arts, list 2, fine arts.
A survey of cultural interrelationships of the arts, emphasizing the visual
arts of painting, sculpture and architecture.

HONS 214. AFRICAN AMERICAN CULTURE AND EXPRESSIONS. 5
Credits.
**Cross listed**: AAST 214, HUMN 214.
**Satisfies**: cultural and gender diversity university graduation requirement.
An interdisciplinary survey of African American culture beginning with
ancient African history and traditions through contemporary issues in
the African American experience. Attention given to basic principles of
history, sociology, political science, economics and the arts in the study
of the dynamics of the African American culture.
HONS 215. EARLY AFRICAN AMERICAN HISTORY: ANCIENT AFRICA TO THE END OF THE RECONSTRUCTION 1877. 5 Credits.
Cross listed: AAST 215, HIST 215.
Satisfies: cultural and gender diversity university graduation requirement.
Examines the African American experience from African civilizations in the 4th century AD through slavery to the end of the Reconstruction era in the United States.

HONS 220. AFRICAN AMERICAN HISTORY: POST CIVIL WAR TO PRESENT. 5 Credits.
Cross listed: AAST 220, HIST 220.
Satisfies: the GECR for social sciences, list 3, history.
The study of American history from the perspective of the African American experience since the end of the Reconstruction period.

HONS 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

HONS 298. UNIVERSITY HONORS SEMINAR. 1-5 Credits.
Seminar

HONS 301. CLASSICAL ETHICS AND RHETORIC. 4 Credits.
Pre-requisites: junior standing and admissions to the Honors Program or instructor's permission.
A review and elaboration of some of the key philosophical systems and communication strategies of classical western culture (Greek and early Christian).

HONS 311. SOCIAL AND POLITICAL PHILOSOPHY. 5 Credits.
Cross listed: PHIL 311.
Pre-requisites: successful completion of ENGL 101.
Major political theories and analysis of arguments that attempt to justify actual or proposed political and social institutions.

HONS 312. PHILOSOPHY OF RELIGION. 5 Credits.
Cross listed: PHIL 312.
Pre-requisites: successful completion of ENGL 101.
Philosophical problems with religion and theology. Typical problems concern the existence of God, God's relation to evil, the immortality of the soul, the meaning of religious language and the criteria for theological verification.

HONS 315. AFRICAN HISTORY: ANCIENT AFRICA TO MANDELA. 5 Credits.
Cross listed: AAST 315, HIST 315.
Satisfies: international studies university graduation requirement.
A survey of African history from prehistory to the present. Emphasizes earlier Farican civilizations, extensive contact with the outside world and the formation of African nations.

HONS 320. HISTORY OF ANCIENT WESTERN PHILOSOPHY. 5 Credits.
Cross listed: PHIL 320.
Pre-requisites: ENGL 100.
The history of Greek philosophy from the first theories about the causes of the universe to the Socratic inquiry about how to live and to Plotinus’ theory of the soul.

HONS 321. HISTORY OF MODERN WESTERN PHILOSOPHY. 5 Credits.
Cross listed: PHIL 321.
Pre-requisites: ENGL 101.
16th–18th century European philosophy against the background of religion and science. The main theme is the relation of knowledge to reason and experience.

HONS 322. HISTORY OF CONTEMPORARY WESTERN PHILOSOPHY. 5 Credits.
Cross listed: PHIL 322.
Pre-requisites: successful completion of ENGL 101.
This course is a survey of the major European and American schools of the 19th and 20th century philosophy. Course material includes German idealism, existentialism, utilitarianism, Marxism, pragmatism, feminism, logical positivism and post-modernism.

HONS 331. CHINESE PHILOSOPHY. 5 Credits.
Cross listed: PHIL 331.
Pre-requisites: successful completion of ENGL 101.
Confucius' humanistic ethics, the naturalistic philosophy of Taoism and Buddhism—especially the Zen Buddhist method of enlightenment.

HONS 342. TRIBES, BANDS AND CHIEFDOMS. 5 Credits.
Cross listed: ANTH 342.
Satisfies: international studies university graduation requirement.
Approaches to understanding non-state societies and an examination of how their cultures contrast with each other and with our own way of life.

HONS 349. MAJOR CIVILIZATIONS OF ASIA. 5 Credits.
Cross listed: ANTH 349.
Satisfies: international studies university graduation requirement.
An ethnographic survey of Japan, China, Islam and India, emphasizing the core values of each.

HONS 355. INDIANS OF NORTH AMERICA. 5 Credits.
Cross listed: ANTH 355.
Satisfies: cultural and gender diversity university graduation requirement.
A comparative overview of distinctive Indian cultures. Opportunities for individual research provided.

HONS 357. PEOPLES OF LATIN AMERICA. 5 Credits.
Cross listed: ANTH 357.
Satisfies: international studies university graduation requirement.
An ethnographic survey of contemporary cultures of Central and South America, including both aboriginal and peasant societies. Emphasis is placed on the merging and clashing of European, Indian and African, rich and poor and the continuing character of these conflicts into the present.

HONS 358. MEDICAL ANTHROPOLOGY. 5 Credits.
Cross listed: ANTH 358.
Satisfies: international studies university graduation requirement.
This course offers an understanding of the anthropology of medicine, curing versus healing, the concept of biomedicine and its role in today's world and other perspectives on medicine and medical practice. A review of folk and professional medical systems will be included.

HONS 366. REVOLUTIONS AND DEVELOPMENT IN THE THIRD WORLD. 5 Credits.
Cross listed: ANTH 366.
Satisfies: international studies university graduation requirement.
This course explores the alternative models available for understanding rapid cultural change in a worldwide array of postcolonial countries. Emphasis is placed on the historical origins of ethnic, nationalist and class conflict in local regions as studied by anthropologists. Opportunities are made available for pursuing students' regional interests.
HONS 393. TECHNOLOGY WORLD CIVILIZATION. 4 Credits.
Cross listed: TECH 393.
Pre-requisites: ENGL 101.
Satisfies: international studies university graduation requirement.
Students will investigate the issues surrounding technological change in discrete cultural settings with a historical perspective of the evolution of technology in a global context.

HONS 396. EXPERIMENTAL COURSE. 1-5 Credits.

HONS 398. HONORS SEMINAR. 1-5 Credits.
Subject matter varies according to faculty and student interest. Designed for sophomores, juniors and seniors.

HONS 399. DIRECTED STUDY. 1-10 Credits.
Directed Study

HONS 400. SPECIAL PERIODS IN THE HISTORY OF PHILOSOPHY. 5 Credits.
Cross listed: PHIL 400.
Pre-requisites: ENGL 101.
Intensive study of a period in the history of philosophy that is not included in the 320–322 sequence.

HONS 415. HISTORY OF ANCIENT ART. 5 Credits.
Cross listed: ART 415.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course is a survey of early styles of art in Western civilization, including Egypt, the Near East, Greece and Rome.

HONS 417. HISTORY OF MEDIEVAL ART. 5 Credits.
Cross listed: ART 417.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course is a survey of painting, sculpture, architecture and craft art in Europe from the Early Christian period through the Gothic age (ca. 400–1400 AD).

HONS 420. HISTORY RENAISSANCE ART. 5 Credits.
Cross listed: ART 420.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course includes discussion of painting, sculpture and architecture of Renaissance Europe from the 14th through the 16th centuries, including a comparison between Italian and Northern styles.

HONS 422. HISTORY BAROQUE AND ROCOCO ART. 5 Credits.
Cross listed: ART 422.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course presents European Art between 1600 and 1750, with attention to the interrelation between the visual arts of painting, sculpture and architecture and other areas of cultural development—music, drama, literature and philosophy.

HONS 423. ART OF THE 19TH CENTURY. 5 Credits.
Cross listed: ART 423.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course is a survey of painting, sculpture and architecture in 19th century America and Europe, covering such movements as Neoclassicism, Romanticism, Realism and Impressionism.

HONS 430. HISTORY OF MODERN ART. 5 Credits.
Cross listed: ART 430.
Pre-requisites: ENGL 101; ART 213 or HONS 213 or HUMN 213 (may be taken concurrently).
This course is a survey of major art forms, including architecture, from French Impressionism (ca. 1865) to the present. Emphasis will be on identifying the origins and tracing the development of 20th century styles.

HONS 435. MAJOR AUTHORS IN THE HISTORY OF PHILOSOPHY. 5 Credits.
Cross listed: PHIL 435.
Notes: repeatable for credit with different authors.
Pre-requisites: successful completion of ENGL 101.
Intensive study of a single major philosopher.

HONS 439. HONORS SEMINAR. 1-5 Credits.
Pre-requisites: permission of instructor.
This course is a variable topics course exploring current interests and research of participating faculty.

HONS 450. CULTURAL ECOLOGY. 5 Credits.
Cross listed: ANTH 450.
Satisfies: international studies university graduation requirement.
The relationship between man, nature and culture is contrasted in food collecting, simple farming and technologically more complex cultures.

HONS 454. MYTH, RITUAL AND MAGIC. 5 Credits.
Cross listed: ANTH 454.
This course explores myth, magic and ritual as they relate to religion, philosophy and science, both in western and non-western, urban and non-urban contexts.

HONS 458. FAIR TRADE, COFFEE, AND SOCIAL JUSTICE. 2 Credits.
Cross listed: ANTH 458.
This class explores the Fair Trade movement, using coffee as a lens. Topics include how the Fair Trade system has worked, debate over the Fair Trade system as a social movement and an alternative market.

HONS 495. HONORS INTERNSHIP. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

HONS 496. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

HONS 498. HONORS SEMINAR. 1-5 Credits.
Honors students present the results of their research project, honors thesis, or other creative work, prepared under the guidance of their major departments.

HONS 499. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Human Resource Management (HUMR)

HUMR 298. SEMINAR. 1-5 Credits.

HUMR 299. DIR STUDY. 1-15 Credits.

HUMR 328. HUMAN RESOURCE MANAGEMENT. 4 Credits.
Pre-requisites: junior standing.
Human resource management (HRM) is an ongoing process consisting of various critical functions including human resource planning, recruitment, selection, training and development, job analysis, performance appraisal, compensation and health and safety. These major HRM functions and their sequential interdependence are discussed and applied. Various external forces that constrain managerial decision-making are also considered including laws and regulations dealing with equal opportunity, workplace diversity and multiculturalism, especially as these impact human resource policies and practices.

HUMR 395. INTERNSHIP. 1-10 Credits.

HUMR 399. DIR STUDY. 1-15 Credits.

HUMR 427. COMPENSATION ADMINISTRATION. 4 Credits.
Pre-requisites: HUMR 328.
Part I consists of an analysis of the theoretical concepts, practical techniques, and criteria commonly recognized in the development and control of various compensation models. Part II is the application (field study) of selected concepts, techniques, and criteria considered appropriate for the solutions to local work place compensation problems.

HUMR 429. CURRENT ISSUES IN HUMAN RESOURCE MANAGEMENT. 4 Credits.
Pre-requisites: HUMR 328.
Analyses of selected major problems confronted in human resource management.

HUMR 495. PROFESSIONAL INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

HUMR 498. SEMINAR. 1-5 Credits.

HUMR 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Humanities (HUMN)

HUMN 101. INTRODUCTION TO WOMEN'S STUDIES. 5 Credits.
Cross listed: WMST 101.
Satisfies: cultural and gender diversity university graduation requirement.
Explores the struggle for equality, the message and impact of the media, education, race, class, roles, stereotypes and romantic love on the experience of women.

HUMN 196. EXPERIMENTAL COURSE. 1-5 Credits.

HUMN 202. THEATRE IN THE HUMANITIES. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
Elements of theatre, dramatic structure, types and styles; tradition, values and ideas of the theatre and humanity’s relationship to it.

HUMN 210. CLASSICS IN LITERATURE. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 1, literature.
Studies works generally considered among the best and most typical of the early (e.g., Hebrew and Greco-Roman) expressions of Western culture and traditions. Discusses the development of specific themes and ideas (e.g., humanism) as they are found in several different works.

HUMN 211. MASTERPIECES OF THE WEST WORLD. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 1, literature.
Literary works selected from the Early Middle Ages through the Renaissance which illustrate themes and ideas central to Western culture, especially the interaction of faith and individualism.

HUMN 212. MUSIC IN THE HUMANITIES. 5 Credits.
Cross listed: MUSC 212.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
This course is a survey with primary focus on Western classical music in terms of humanistic development with emphasis on musical style and structure and relations with the other arts.

HUMN 213. ART IN THE HUMANITIES. 5 Credits.
Cross listed: ART 213, HONS 213.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
A survey of cultural interrelationships of the arts, emphasizing the visual arts of painting, sculpture and architecture.

HUMN 214. AFRICAN AMERICAN CULTURE AND EXPRESSIONS. 5 Credits.
Cross listed: AAST 214, HONS 214.
Satisfies: cultural and gender diversity university graduation requirement.
An interdisciplinary survey of African American culture beginning with ancient African history and traditions through contemporary issues in the African American experience. Attention given to basic principles of history, sociology, political science, economics and the arts in the study of the dynamics of the African American culture.

HUMN 215. INTRODUCTION TO RELIGION. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
An introduction to the range of basic conceptual, historical, comparative, cultural and methodological issues in religion.

HUMN 270. GREAT WORLD VIEWS. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
An analyses of selected writings from the viewpoint of what is said about human nature, the scheme of things and man’s place in that scheme. Emphasis on rational reflection and the relation of various philosophies to the life and conduct of the student.

HUMN 290. ARTS AND IDEAS. 5 Credits.
Notes: normally offered in summers only.
Satisfies: any one of the three Humanities and Fine Arts areas in the General Education Core Requirements (List 1, 2, or 3)
This course traces the development of basic ideas and values in Western culture during the Renaissance—e.g., individualism and technical innovation. Special focus is placed on similar ideas and techniques found in the art, music, theater, literature and philosophy of the period, with frequent guest presenters from different fields of study.
HUMN 296. EXPERIMENTAL COURSE. 1-5 Credits.

HUMN 298. SEMINAR. 1-5 Credits.

HUMN 299. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

Special humanities studies vary according to faculty and student interests.

HUMN 303. SURVEY OF THEATRE HISTORY. 5 Credits.

Cross listed: THTR 303.

Pre-requisites: THTR 202 or upper class standing.

Surveys the major periods of Western theatre from Greek to modern trends.

HUMN 310. ISSUES IN WOMEN'S STUDIES. 4 Credits.

Cross listed: WMST 310.

Satisfies: cultural and gender diversity university graduation requirement.

Analyzes causes and effects of sexual stereotypes and surveys new scholarship through women’s studies in psychology, economics, female biology, history, literature and others.

HUMN 311. AFRICAN AND AFRICAN AMERICAN ART HISTORY. 5 Credits.

Cross listed: ART 311.

Pre-requisites: ENGL 100.

Satisfies: cultural and gender diversity university graduation requirement.

Surveys visual arts from prehistoric Africa to the modern African American artist.

HUMN 315. EAST-WEST PHILOSOPHIES AND RELIGIONS. 5 Credits.

Satisfies: international studies university graduation requirement.

Comparative study of the world’s theological systems in their philosophical, historical and ethical contexts.

HUMN 320. THE HUMAN PROSPECT. 5 Credits.

Cross listed: BIOL 320.

Pre-requisites: sophomore standing.

Satisfies: international studies university graduation requirement.

Explores the biological and philosophical roots of humans’ relationship with the environment.

HUMN 339. SPECIAL TOPICS. 2-5 Credits.

Notes: may be repeated for credit for different topics or titles.

Variable topics.

HUMN 381. NATIONALISM AND RACISM IN CENTRAL EUROPEAN FILM. 4 Credits.

Cross listed: GERM 381.

Pre-requisites: ENGL 201.

Satisfies: international studies university graduation requirement.

This course provides the basic elements of film analysis and examines the depiction of national socialism, racism and the legacy of the Nazi past in German-speaking films by German and other Central European directors from the 1970s to the present. Evaluating criteria will differ depending on whether the course is taken for German or Humanities credit.

HUMN 396. EXPERIMENTAL COURSE. 1-5 Credits.

HUMN 398. SEMINAR. 1-5 Credits.

HUMN 399. DIRECTED STUDY. 1-5 Credits.

HUMN 410. FEMINIST THEORY. 4 Credits.

Cross listed: WMST 410.

Pre-requisites: WMST 101 or HUMN 310 or WMST 310.

Feminist theories developed to explain women’s subordinate position in society and current trends in feminist thought. Includes psychoanalytic feminism, feminist literary criticism and cross-cultural views of feminism.

HUMN 415. GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES. 5 Credits.

Cross listed: WMST 415.

Pre-requisites: one course in or cross-listed with Women’s and Gender Studies.

Satisfies: cultural and gender diversity university graduation requirement.

This course consists of a theoretical examination of gay, lesbian, bisexual and transgender identities. The course material will include texts from queer theory and a wide variety of academic disciplines.

HUMN 440. PERSPECTIVES ON DEATH. 5 Credits.

Satisfies: international studies university graduation requirement.

Human awareness of death is unique, but the philosophical, religious and cultural response to it has been one of great variety. All human beings have dealt with the reality of death and the course will consider the most prevalent and meaningful perspectives.

HUMN 491. SENIOR THESIS. 4 Credits.

Pre-requisites: permission of the instructor and senior standing.

Satisfies: senior capstone university graduation requirement.

Humanities majors will present the results of a research project or creative work prepared under the direction of a mentor approved by the Coordinator of Humanities. A second reviewer must approve the final evaluation of the project. This course or ITGS 400 must be used as the Senior Capstone required for graduation for Humanities majors.

HUMN 496. EXPERIMENTAL COURSE. 1-5 Credits.

HUMN 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

HUMN 498. SEMINAR. 1-5 Credits.

HUMN 499. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

Indian Studies (IDST)

IDST 101. INTRODUCTION TO INDIAN STUDIES. 5 Credits.

Satisfies: cultural and gender diversity university graduation requirement.

This course introduces the basic philosophy (spiritual and intellectual sources), method and major topics of the discipline. Material explored includes organizing concepts, theories and patterns within a historical context-including white contact time and pre-white contact time.

IDST 196. EXPERIMENTAL COURSE. 1-5 Credits.

Experimental

IDST 201. SALISH LANGUAGE AND CULTURE I. 5 Credits.

Pre-requisites: IDST 101.

These courses are the beginning courses in Salish language and culture, focusing on the nselzcin dialect traditionally spoken by the aboriginal people of the northern areas of central and Eastern Washington as well as southern British Columbia. Students will learn to speak and understand basic Salish vocabulary and phrases, and will be introduced to the International Phonetic Alphabet as applied to nselzcin.

IDST 202. SALISH LANGUAGE AND CULTURE II. 5 Credits.

Pre-requisites: IDST 201.

These courses are the beginning courses in Salish language and culture, focusing on the nselzcin dialect traditionally spoken by the aboriginal people of the northern areas of central and Eastern Washington as well as southern British Columbia. Students will learn to speak and understand basic Salish vocabulary and phrases, and will be introduced to the International Phonetic Alphabet as applied to nselzcin.
IDST 203. SALISH LANGUAGE AND CULTURE III. 5 Credits.
Pre-requisites: IDST 202.
These courses are the beginning courses in Salish language and culture, focusing on the nselxcin dialect traditionally spoken by the aboriginal people of the northern areas of central and Eastern Washington as well as southern British Columbia. Students will learn to speak and understand basic Salish vocabulary and phrases, and will be introduced to the International Phonetic Alphabet as applied to nselxcin.

IDST 296. EXPERIMENTAL COURSE. 4 Credits.
Experimental

IDST 316. AMERICAN INDIAN HISTORY I. 5 Credits.
Cross listed: HIST 316.
This course introduces students to an overview of American Indian history through major themes which include impact and response to European contact, conquest and colonization, empire building, removal and dispossession from traditional lands, treaty making and the origins of federal Indian policy.

IDST 317. AMERICAN INDIAN HISTORY II. 5 Credits.
Cross listed: HIST 317.
This course introduces students to an overview of American Indian history from 1887 to the present. Major themes covered in this course include but not limited to questions regarding history as a discipline, origins of indigenous peoples, impacts and responses to colonization and genocide, beginning from assimilationist policies, self-determination, termination and relocation, Red Power movement, gender, sovereignty, identity, land, environment and current issues facing American Indian peoples and communities today.

IDST 321. CONTEMPORARY INDIAN ISSUES. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement.
This course will examine the contemporary educational, social, political and cultural issues currently impacting Native American communities. Through individual and group research, students will discuss a range of issues including educational reform, community organizing, economic development, land rights, the breakdown of traditional families and culturally relevant program development within various Native American communities. Focus will be on the Native American nations throughout North America.

IDST 325. NATIVE AMERICAN WRITING. 5 Credits.
Pre-requisites: ENGL 101.
The course focuses on the development of writing from a Native American perspective. Through the study of various Native American writers, writing exercises, and skills development, students will develop their own writing style.

IDST 330. INDIAN WARS: PAST AND PRESENT. 5 Credits.
The focus of this course is Indian wars of the Pacific Northwest during the first stages of white conquest. It will also include the study of contemporary native American political and social struggles.

IDST 338. AMERICAN INDIAN CINEMA. 5 Credits.
Pre-requisites: IDST 101.
This course explores how the Hollywood film industry both constructs and appropriates images of American Indians. The course examine Native American themed films, which have been made by both Native and non-natives, in order to critically compare the images presented from each perspective.

IDST 380. SURVEY OF NATIVE AMERICAN LITERATURE. 5 Credits.
Cross listed: ENGL 380.
Pre-requisites: ENGL 201 or permission of instructor.
Satisfies: cultural and gender diversity university graduation requirement.
Described to introduce students to specific examples of narrative, ceremonial, ritualistic, religious and secular literatures from the oral traditions of Indian Nations in North America and South America. Also introduces students to contemporary genres (i.e., poetry, the short story, the novel and drama) as they emerge from the oral traditions, with the specific purpose of articulating the continuity as reflected in literary genres.

IDST 396. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

IDST 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop

IDST 398. SEMINAR. 4 Credits.
Seminar

IDST 399. DIRECTED STUDY. 5 Credits.
Directed Study

IDST 420. READINGS IN DECOLONIZATION. 5 Credits.
Cross listed: CHST 420.
Pre-requisites: IDST 101 and CHST 101.
This course grounds students in the theory and concepts of colonization, decolonization and indigenous peoples in America, with brief comparisons with global indigenous peoples and experiences. Through that theoretical understanding, students examine and formulate ways in which decolonization can impact and be integrated into indigenous lives and communities in a meaningful way.

IDST 421. FEDERAL INDIAN LAW AND POLICY I. 5 Credits.
Cross listed: POLI 421.
This is the first course in a two course series on federal Indian law and policy. Federal Indian law is the body of law that regulates the relationship between Indian tribes and the United States. Federal Indian policy consists of the various doctrines underlying federal legislative and executive actions affecting Indian tribes. This course will introduce students to laws, regulations and case law that comprise federal Indian law as well as the policies underlying those laws. Topics will be further explored through the use of case studies.

IDST 422. FEDERAL INDIAN LAW AND POLICY II. 5 Credits.
Cross listed: POLI 422.
This course is a continuation of IDST 421. Topics include Modern Trust doctrine, the Federal-Tribal Relationship, congressional plenary power, tribal land and sovereignty issues, and tribal justice systems. These topics are explored through the use of case studies.

IDST 437. INDIAN CHILD WELFARE. 5 Credits.
Cross listed: SOWK 437.
Satisfies: Cultural and Gender Diversity in the U.S.
This course introduces Indian Child Welfare (ICW) with an emphasis on understanding legal, historical, and cultural issues applying to work with American Indian and Alaska Native families. This course describes ICW as a method of culturally appropriate child welfare practice that draws on traditions of American Indian and Alaska Native nations. Many elements of ICW may serve as evidence-based best practice principles for child welfare. The Indian Child Welfare Act of 1978 (ICWA, United States Code Title 25, §1901-1963) is central to this course and child welfare practice.
IDST 477. CONTEMPORARY INDIGENOUS WOMEN. 5 Credits.
Cross listed: WMST 477.
Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement.
This course is designed to introduce students to the role of indigenous women in the struggles for national self determination from a historical/cultural/spiritual/political context. Historically, indigenous women have always played a very prominent and powerful role within all spheres of indigenous social/political/cultural and economic issues affecting indigenous nations from a contemporary context.

IDST 480. NATIVE AMERICAN ORAL TRADITION. 5 Credits.
Cross listed: HIST 480.
Pre-requisites: junior standing.
This course expands the students' understanding of the past through the inclusion of indigenous perspectives. Students will examine the use of oral traditions/histories, particularly the contestation regarding their validity as legitimate, historical sources. This course also examines the evolution of tribal and oral traditions from early records of their existence to the modern issues surrounding their use and maintenance. Students are introduced to the issues, ethics and protocol when working with tribal members and communities.

IDST 485. INDIGENOUS EDUCATION. 5 Credits.
Cross listed: EDUC 485.
Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement.
This course introduces students to the issues, ethics and protocol when working with tribal members and communities. Students will examine the role education has played as an instrument of oppression, and how indigenous nations have restructured educational systems to reclaim their cultural identities and to empower themselves politically.

IDST 495. INDIAN STUDIES INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

IDST 496. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental.

IDST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop

IDST 498. SEMINAR. 1-5 Credits.
Seminar

IDST 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Graduate level directed study and research projects in American Indian and Indigenous studies varying according to faculty and student interest.

Integrative Studies (ITGS)

ITGS 110. FYE: HUMANITIES. 5 Credits.
Pre-requisites: freshman class standing.
Satisfies: students who complete this course will have one HUMANITIES requirement cleared, student’s choice.
This course combines a focus on student success skills with academic content in the Humanities breadth area designed to develop critical inquiry skills. The FYE consists of a pair of courses that are linked by a single problem or text and approached by each distinct discipline.

ITGS 120. FYE: NATURAL SCIENCE. 5 Credits.
Pre-requisites: freshman class standing.
Satisfies: students who complete this course will have one NATURAL SCIENCE requirement cleared, student’s choice.
This course combines a focus on student success skills with academic content in the Natural Science breadth area designed to develop critical inquiry skills. The FYE consists of a pair of courses that are linked by a single problem or text and approached by each distinct discipline.

ITGS 130. FYE: SOCIAL SCIENCE. 5 Credits.
Pre-requisites: freshman class standing.
Satisfies: students who complete this course will have one SOCIAL SCIENCE requirement cleared, student’s choice.
This course combines a focus on student success skills with academic content in the Social Science breadth area designed to develop critical inquiry skills. The FYE consists of a pair of courses that are linked by a single problem or text and approached by each distinct discipline.

ITGS 196. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

ITGS 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop

ITGS 198. SEMINAR. 1-5 Credits.
Seminar

ITGS 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-2 Credits.
Workshop

ITGS 398. SEMINAR. 1-5 Credits.
Seminar

ITGS 400. INTERDISCIPLINARY SR CAPSTONE. 4 Credits.
Notes: Major advisers can inform students about their major senior capstone requirements.
Pre-requisites: senior standing.
The Interdisciplinary Senior Capstone carries students from the academic community into civic life. The course assembles students into teams for studying problems which graduates will confront as citizens in the Pacific Northwest. It asks students individually and in collaboration with others to produce documents which address these problems by drawing from an array of disciplinary perspectives. The University offers this course as an option for completing the senior capstone graduation requirement, depending on the student’s major.
Interdisciplinary Studies (ITDS)

ITDS 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ITDS 199. SPECIAL STUDIES. 1-5 Credits.

ITDS 201. PORTFOLIO ASSESSMENT. 1-45 Credits.

Notes: graded Pass/Fail.
Experiential learning credit transcribed from Eastern Washington University faculty Portfolio Assessment.

ITDS 295. INTERNSHIP. 1-15 Credits.

ITDS 296. EXPERIMENTAL COURSE. 1-10 Credits.

ITDS 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

ITDS 300. PORTFOLIO DEVELOPMENT. 4 Credits.

Notes: graded Pass/Fail.

Pre-requisites: permission of the instructor.
Significant prior learning is documented for evaluation and awarded elective academic credit.

ITDS 395. CONTRACTED LEARNING. 1-15 Credits.

ITDS 396. EXPERIMENTAL COURSE. 1-5 Credits.

ITDS 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-15 Credits.

ITDS 399. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

ITDS 495. INTERNATIONAL AFF INTERN. 1-15 Credits.

ITDS 496. EXPERIMENTAL COURSE. 1-5 Credits.

ITDS 498. IS SEMINAR. 1-5 Credits.

Pre-requisites: advanced class standing and permission of the instructor.
An advanced-level seminar dealing with issues relating to the formation, implementation, and evaluation of policy in international undertakings.

ITDS 499. DIRECTED STUDY. 1-12 Credits.

Directed Study

International Affairs (INST)

INST 200. GLOBAL ISSUES. 4 Credits.

Satisfies: university graduation requirement international studies. A survey of important large-scale issues and conditions which are active in the contemporary world. Includes global perspectives of ecological and social/economic issues.

INST 296. EXPERIMENTAL. 1-5 Credits.

INST 299. DIRECTED STUDY. 1-5 Credits.

INST 380. JAPAN TODAY. 4 Credits.

Cross listed: JAPN 380.

Pre-requisites: ENGL 201 or instructor permission.
Satisfies: international studies university graduation requirement. A broad survey of contemporary Japan including society, culture, geography, government and economy. No knowledge of Japanese language required.

INST 395. CO-OP FIELDWORK. 1-5 Credits.

INST 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

INST 398. SEMINAR. 1-5 Credits.

INST 399. DIRECTED STUDY. 1-5 Credits.

INST 490. SENIOR CAPSTONE: GLOBALIZATION. 5 Credits.
Cross listed: POLI 490.

Pre-requisites: POLI 203 or POLI 204 and senior standing or permission of instructor.
Satisfies: senior capstone university graduation requirement.
This course is a senior-level seminar designed to integrate and further refine the analytical, writing, and presentation skills acquired as a Government or International Affairs major. Its premise is that any student of politics or international affairs should graduate a bachelor's degree program with a refined sensibility of the concept (and varying realities) of globalization. The course covers case studies and theoretical analyses of the global dynamics of economic, cultural, religious, media and/or political relations, as well as the role of technological change in global processes. Students prepare and present an original, extensive case study and analysis of globalization processes, if possible relating to the student's work as an IA or Government major.

INST 495. INTERNATIONAL AFF INTERN. 1-15 Credits.

INST 496. EXPERIMENTAL COURSE. 1-5 Credits.

INST 498. IS SEMINAR. 1-5 Credits.

Pre-requisites: senior standing and permission of the instructor.
A practical approach to understanding the implications to marketing functions that result from competing in a global marketplace. Marketing function differences and similarities are explored across national borders and cultures.

International Business (IBUS)

IBUS 470. INTERNATIONAL BUSINESS MANAGEMENT. 4 Credits.

Cross listed: MGMT 470.

Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement. Analysis of the impact of international business variables on global organizations and the impact of these organization on the societies in which they operate.

IBUS 471. MULTINATIONAL PEOPLE MANAGEMENT. 4 Credits.

Cross listed: MGMT 471.

Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement. A systems approach to multinational human resource management incorporating three interrelated subsystems: internal (the multinational company), external (the nation state) and the individual (the manager) in a cross-cultural context.

IBUS 472. GLOBAL MARKETING MANAGEMENT. 4 Credits.

Cross listed: MKTG 472.

Pre-requisites: IBUS 470/MGMT 470 or MKTG 310.
A practical approach to understanding the implications to marketing functions that result from competing in a global marketplace. Marketing function differences and similarities are explored across national borders and cultures.
IBUS 474. INTERNATIONAL FINANCIAL MANAGEMENT. 4 Credits.
Cross listed: FINC 474.
Pre-requisites: FINC 335.
This course discusses financial management in the international arena.

IBUS 498. SEMINAR. 1-5 Credits.

Japanese (JAPN)

JAPN 101. FIRST-YEAR JAPANESE I. 5 Credits.
The beginning Japanese sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

JAPN 102. FIRST-YEAR JAPANESE II. 5 Credits.
Pre-requisites: JAPN 101 or equivalent
The beginning Japanese sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

JAPN 103. FIRST-YEAR JAPANESE III. 5 Credits.
Pre-requisites: JAPN 102 or equivalent.
The beginning Japanese sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

JAPN 199. DIRECTED STUDY. 1-6 Credits.

JAPN 201. SECOND-YEAR JAPANESE. 5 Credits.
Pre-requisites: First-Year Japanese or equivalent

JAPN 202. SECOND-YEAR JAPANESE. 5 Credits.
Pre-requisites: JAPN 201 or equivalent.

JAPN 203. SECOND-YEAR JAPANESE. 5 Credits.
Pre-requisites: JAPN 202 or equivalent.

JAPN 299. DIRECTED STUDY. 1-6 Credits.

JAPN 305. JAPANESE CONVERSATION. 2 Credits.
Pre-requisites: JAPN 201 or permission of the instructor.
Concentrated drill in Japanese conversation discussing such subjects as the culture, civilization and current events of Japan.

JAPN 331. CONTEMPORARY ISSUES I. 2 Credits.
Pre-requisites: JAPN 203 or instructor's permission.
Examines and discusses major contemporary issues in Japan. Topics include housing conditions, marriage and women's social progress, the aging society, education, Japanese-style management, etc.

JAPN 332. CONTEMPORARY ISSUES II. 2 Credits.
Pre-requisites: JAPN 203 or instructor's permission.
Examines and discusses major contemporary issues in Japan. Topics include housing conditions, marriage and women's social progress, the aging society, education, Japanese-style management, etc.

JAPN 380. JAPAN TODAY. 4 Credits.
Cross listed: INST 380.
Pre-requisites: ENGL 201 or instructor permission.
Satisfies: international studies university graduation requirement.
A broad survey of contemporary Japan including society, culture, geography, government and economy. No knowledge of Japanese language required.

JAPN 396. EXPERIMENTAL COURSE. 1-5 Credits.

JAPN 399. DIRECTED STUDY. 1-6 Credits.

JAPN 499. DIRECTED STUDY. 1-5 Credits.

Journalism (JRNM)

JRNM 100. EASTERNER STAFF. 3 Credits.
Notes: graded Pass/Fail; repeatable for up to 9 credits.
Pre-requisites: permission of the instructor.
This course requires students to engage in reporting and editorial assignments on the staff of the university paper.

JRNM 196. EXPERIMENTAL COURSE. 1-5 Credits.

JRNM 197. FRESHMAN SEMINAR. 2 Credits.

JRNM 199. SPECIAL STUDIES. 1-5 Credits.

JRNM 296. EXPERIMENTAL COURSE. 1-10 Credits.
Pre-requisites: permission of the instructor.

JRNM 309. GRAMMAR FOR PROFESSIONAL WRITERS. 5 Credits.
Cross listed: ENGL 309, TCOM 309.
Pre-requisites: ENGL 201.
Many professionals continue to struggle with grammar and usage rules throughout their careers. In this course, students will refresh and improve their knowledge of English grammar, style and usage rules. They will develop confidence in using correct punctuation, capitalization and verb forms, and learn how to create and employ different types of sentence structures, becoming proficient at writing clear, correct sentences to communicate effectively with a variety of audiences.

JRNM 330. MASS NEWS MEDIA. 5 Credits.
This course is a survey of scope, function, standards and career opportunities in mass news media.

JRNM 332. NEWS WRITING. 5 Credits.
Pre-requisites: ENGL 201.
This course covers the news gathering process and how to write basic news reports.

JRNM 333. ADVANCED NEWS WRITING. 5 Credits.
Pre-requisites: JRNM 332; co-requisite JRNM 341
This course engages students in the process of writing features, narratives and analyses.

JRNM 334. MAGAZINE ARTICLE WRITING. 4 Credits.
Pre-requisites: JRNM 332 or permission of the instructor.
This course focuses on the development of article ideas, the preparation of manuscripts and analysis of various markets with a view of selling articles.

JRNM 341. REPORTING. 5 Credits.
Pre-requisites: JRNM 332; co-requisite JRNM 333
In this course students gain a greater appreciation of public issues and controversies while exploring strategies for explaining these often complex issues to the general public.

JRNM 349. PHOTOJOURNALISM. 4 Credits.
In this course students learn to take photographs and study how photography illustrates newspaper, magazine and internet news. The process of choosing and editing photographs for publication is analyzed.
JRNM 351. THE LAW OF JOURNALISM. 4 Credits.
Prerequisite: sophomore standing or permission of the instructor.
In this course students learn about laws pertaining to the profession of journalism. Topics may include freedom of the press, libel, privacy and copyright.

JRNM 395. INTERNSHIP. 5-16 Credits.
Notes: may be repeated.
Pre-requisites: permission of the instructor, department chair and college dean.
Students obtain real-world experience by spending one or more quarters working with professionals in the news media. These experiences may be with practitioners working at newspapers, radio, television, online news outlets or working in public relations with an organization.

JRNM 399. DIRECTED STUDY. 1-5 Credits.

JRNM 400. EASTERNER STAFF LEADERSHIP. 3 Credits.
Notes: repeatable for up to 9 credits.
Pre-requisites: JRNM 100.
Students learn how to manage the publication of a student newspaper.

JRNM 442. ADVANCED REPORTING. 5 Credits.
Pre-requisites: JRNM 333 and JRNM 341.
This course considers philosophical questions pertaining to news coverage. It also analyzes the judicial system as a topic of journalistic writing.

JRNM 451. INTRODUCTION TO PUBLIC RELATIONS THEORY. 4 Credits.
Pre-requisites: junior standing.
Explores a broad range of concepts, elements, skills and impacts, including theory and applications; examines the role of public relations in business and society and as a profession.

JRNM 452. ADVANCED PUBLIC RELATIONS THEORY. 4 Credits.
Pre-requisites: JRNM 332, JRNM 451 or permission of the instructor.
Applies journalism, communications and public relations theories and skills to case study examples in organizations and communication environments.

JRNM 453. PUBLIC RELATIONS WRITING. 4 Credits.
Pre-requisites: JRNM 332, JRNM 451 or permission of the instructor.
Practice in methods of preparing and producing messages for organizations in print and other media forms.

JRNM 470. DESKTOP PUBLICATION DESIGN. 4 Credits.
Pre-requisites: DESN 360 or permission of the instructor.
Applies the theories and principles of publication design to newspaper, newsletter, magazine and brochure formats as produced with desktop publishing technology.

JRNM 475. EDITING AND PUBLISHING. 4 Credits.
Pre-requisites: ENGL 459.
This course covers the editing of newspapers, magazines and online publications. It considers issues of design in the preparation of copy, art and photography for publication.

JRNM 480. NON-FICTION WRITING PROJECTS. 5 Credits.
Pre-requisites: ENGL 459, permission of the instructor.
This course consists of both classroom instruction and editorial advice on finding, writing, revising and placing non-fiction articles.

JRNM 490. SENIOR CAPSTONE: CRITICAL WRITING. 4 Credits.
Pre-requisites: JRNM 332, JRNM 341, senior standing.
Satisfies: JRNM 332, JRNM 341, senior standing.
This course provides students the opportunity to analyze effective persuasive writing in newspapers, magazines, websites and blogs. Students develop effective reporting techniques, learn how to focus and structure an argument and strengthen their commentary.

JRNM 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.

JRNM 496. EXPERIMENTAL COURSE. 1-10 Credits.

JRNM 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

JRNM 498. SEMINAR. 1-5 Credits.

JRNM 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor.

Management (MGMT)

MGMT 120. THE WORLD OF BUSINESS. 5 Credits.
Notes: not open to upper-division business administration majors.
Surveys the basic roles and functions performed by business firms in modern free enterprise societies.

MGMT 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MGMT 200. BUSINESS HISTORY IN THE U.S.. 4 Credits.
Satisfies: GECR for social science, list 3, history.
Provides an overview of the historical development of business practice and thought in the United States using readings from both the time period in question and contemporary scholarly essays.

MGMT 295. PRE-PROFESSIONAL INTERNSHIP. 1-10 Credits.

MGMT 296. EXPERIMENTAL COURSE. 1-5 Credits.

MGMT 299. DIRECTED STUDY. 1-15 Credits.

MGMT 326. ORGANIZATION THEORY AND BEHAVIOR. 4 Credits.
Pre-requisites: junior standing.
Explores the nature of human behavior in organizations as well as the structural effects of change. Application to the management of human resources is provided. A conceptual foundation is applied to practical situations throughout the course.

MGMT 395. INTERNSHIP. 1-15 Credits.

MGMT 396. EXPERIMENTAL COURSE. 1-5 Credits.

MGMT 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MGMT 398. SEMINAR. 1-5 Credits.

MGMT 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

MGMT 422. ENTREPRENEURSHIP. 4 Credits.
Pre-requisites: junior standing.
A study of entrepreneurial qualities and methods used to start and expand business ventures. Maximum flexibility is used to allow students to pursue individual interests. Marketing and accounting background helpful.
MGMT 423. BUSINESS AND SOCIETY. 4 Credits.
Pre-requisites: MGMT 326, senior standing.
Study of the interrelations between business and its external environment, focusing on the social, political and legal interactions. Review of critical managerial issues from historical, theoretical and ethical perspectives and their impact on organizations.

MGMT 424. EQUITY AND EQUALITY IN THE WORKPLACE. 3 Credits.
Cross listed: WMST 424.
Pre-requisites: ENGL 201.
This course examines feminist theory, the law and business management theories as they apply to equality and equity in the workplace. The course is an integrated approach to business and gender issues.

MGMT 470. INTERNATIONAL BUSINESS MANAGEMENT. 4 Credits.
Cross listed: IBUS 470.
Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement.
Analysis of the impact of international business variables on global organizations and the impact of these organizations on the societies in which they operate.

MGMT 471. MULTINATIONAL PEOPLE MANAGEMENT. 4 Credits.
Cross listed: IBUS 471.
Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement.
A systems approach to multinational human resource management incorporating three interrelated subsystems: internal (the multinational company), external (the nation state) and individual (the manager) in a cross-cultural context.

MGMT 480. ORGANIZATIONAL LEADERSHIP. 4 Credits.
Pre-requisites: MGMT 326.
This seminar examines the various leadership styles in organizations. Students investigate and develop leadership profiles of past, present and future leaders. Project teams develop a video profile and case of a specific organization.

MGMT 490. DEPARTMENT SENIOR CAPSTONE. 4 Credits.
Pre-requisites: ACCT 251, ACCT 252, ACCT 261; DSCI 245, DSCI 346; ECON 200, ECON 201; ENGL 201; FINC 335; MATH 200; MGMT 326; MISC 211; MKTG 310; OPSM 330; MGMT 423 (may be taken concurrently); Computer Literacy I and II and admission to BAB.
Satisfies: senior capstone university graduation requirement.
See your major department advisor for the appropriate section number.

MGMT 495. PROFESSIONAL INTERNSHIP-MANAGEMENT. 1-15 Credits.
Notes: graded Pass/Fail.
Pre-requisites: permission of the instructor, department chair and college dean.

MGMT 496. EXPERIMENTAL COURSE. 1-5 Credits.

MGMT 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MGMT 498. SEMINAR. 1-5 Credits.

MGMT 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

MGMT 599. DIRECTED STUDY. 1-15 Credits.

MGMT 601. RESEARCH REPORT. 1-15 Credits.

MGMT 695. INTERNSHIP. 1-5 Credits.

Management Information Systems (MISC)

MISC 211. INFORMATION TECHNOLOGY IN BUSINESS. 4 Credits.
Notes: students who have passed MISC 311 do not need to take MISC 211.
Pre-requisites: sophomore standing.
This course provides the basic concepts of the use of information technology in business, both globally and locally, to collect, organize, distribute, and present information in a business environment. Students will learn how to collect information from external sources, such as libraries and the internet, and from internal functional areas. Productivity tools such as database, spreadsheets, wordprocessor, and presentation software will then be used to consolidate, organize, synthesize, and present the external and internal information to business decision makers.

MISC 295. INTERNSHIP. 1-6 Credits.

MISC 298. SEMINAR. 1-5 Credits.

MISC 299. DIRECTED STUDY. 1-15 Credits.

MISC 370. MULTIMEDIA PRODUCTION OF BUSINESS DOCUMENTS. 4 Credits.
Pre-requisites: MISC 211 or equivalent and BUED major, or permission of the instructor.
Learning advanced applications of word processing, presentation, and multimedia software to design formal and technical reports and presentations, correspondence, newsletters, brochures, forms, charts, and graphics. Emphasis is on problem-solving ability to convert raw data into acceptable form using the computer, the Internet, and additional multimedia.

MISC 371. BUSINESS APPLICATIONS PROGRAM DESIGN. 4 Credits.
Pre-requisites: MISC 211 or CscD 210 or permission of the instructor.
This course provides a thorough coverage of the program design and development process. The student will develop algorithmic solutions to a variety of business computer applications using a number of logic tools for programming and documentation. A high level programming language is used to illustrate the logic and structure of common business applications.

MISC 372. DATA COMMUNICATION AND NETWORK FUNDAMENTALS. 4 Credits.
Pre-requisites: MISC 211 or CscD 210 or permission of the instructor.
This course is a general introduction to current technology for local area networks (LAN), wide area networks (WAN) and the Internet.

MISC 373. BUSINESS DATABASE APPLICATIONS. 4 Credits.
Pre-requisites: MISC 211 or CscD 210 or permission of the instructor.
This course provides an in-depth study of theory and applications of databases. Emphasis is on the design of flexible databases to meet business information requirements. Topics include database concepts, data modeling, data dictionary, database models, database design, data integrity and managerial considerations.

MISC 374. SPREADSHEET MODELING FOR BUSINESS APPLICATIONS. 4 Credits.
Pre-requisites: MISC 211 or CscD 211 or permission of the instructor.
Problem solving and data modeling of business applications utilizing spreadsheet software. Graphics, file management, and proper spreadsheet organization topics are covered as well as use of macros for development of user-friendly applications.
MISC 375. EXPERT SYSTEMS APPLICATIONS IN BUSINESS. 4 Credits.  
**Pre-requisites:** MISC 211 or CSCD 211 or permission of the instructor.  
Introduction to expert systems design and implementation. Topics covered include the study of existing successful applications, the techniques of knowledge representation, and a review of knowledge engineering methodologies and languages. Students build a model expert system using an expert system software package.

MISC 395. COOP FIELDWORK. 1-15 Credits.

MISC 398. SEMINAR. 1-5 Credits.

MISC 399. DIRECTED STUDY. 1-5 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

MISC 481. SYSTEMS ANALYSIS AND DESIGN. 4 Credits.  
**Pre-requisites:** MISC 373 or CSCD 327.  
This course involves the analysis and design of business systems. It includes the structure and life cycle of systems. The methodology of systems studies and the use of computer aided software engineering (CASE) tools are emphasized. Systems studies are undertaken utilizing cases and actual business systems projects.

MISC 482. SYSTEMS PROJECT AND PROJECT MANAGEMENT. 4 Credits.  
**Pre-requisites:** MISC 371 and MISC 481.  
This course emphasizes solving an information systems problem using project management and information systems methodologies. Students will develop a computer information system through the use of CASE tools. Interactive and prototyping approaches to system development are investigated and employed. In addition, students will acquire additional knowledge in planning, managing and presenting a systems project.

MISC 485. ADVANCED DATABASE APPLICATIONS DEVELOPMENT. 4 Credits.  
**Pre-requisites:** MISC 373 or permission of the instructor.  
This course is a continuation of business applications of databases. The course stresses application development through fourth generation programming techniques. The course is designed to take advantage of advanced capabilities in current database management systems. Emphasis is on the design and implementation of business database applications. Topics include data modeling, database design, database implementation, report design, form design, application design, security, backup and recovery and multi-user databases.

MISC 486. INFORMATION SECURITY MANAGEMENT. 4 Credits.  
**Pre-requisites:** MISC 211.  
Provides an understanding of the information security vision and strategy set forth by executive management. Concepts and techniques from the management and organizational behavior disciplines are integrated in order to identify and propose solutions to the problems of information security administration. Domain specific issues such as HIPAA and SOX are addressed as appropriate.

MISC 487. E-COMMERCE AND E-COMMERCE SYSTEM DESIGN. 4 Credits.  
**Pre-requisites:** MISC 211.  
This course explores how the landscape of e-commerce is changing and evolving. The course covers important topics of e-commerce, such as: selling and marketing online, businesses trading and collaborating with other businesses, internal business process supports, legal, ethical and tax issues, Web security and e-commerce infrastructure, and provides students with the technical skills of developing e-commerce applications.

MISC 488. HEALTH INFORMATION TECHNOLOGY. 4 Credits.  
**Pre-requisites:** MISC 211 or permission of the instructor.  
This course acquaints students with current and emerging issues in the area of health and medical information technology from a regional, national and international perspective. The classroom format combines lecture and case-based work with hands-on work using a variety of current electronic medical record (EMR) and ancillary systems.

MISC 495. INTERNSHIP. 1-15 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

MISC 496. EXPERIMENTAL COURSE. 1-15 Credits.

MISC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MISC 498. SEMINAR. 1-5 Credits.

MISC 499. DIRECTED STUDY. 1-5 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

MISC 595. INTERNSHIP. 1-15 Credits.

Marketing (MKTG)

MKTG 298. SEMINAR. 1-5 Credits.

MKTG 299. DIRECTED STUDY. 1-15 Credits.

MKTG 310. PRINCIPLES OF MARKETING. 4 Credits.  
**Pre-requisites:** junior standing.  
An introduction to marketing. The marketing mix: Product offering, supply chain management, pricing, promotion, and introduction to buyer behavior.

MKTG 395. PROFESSIONAL INTERNSHIP MARKETING. 1-15 Credits.

MKTG 399. DIRECTED STUDY. 1-5 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

MKTG 400. BUYER BEHAVIOR. 4 Credits.  
**Pre-requisites:** MKTG 310.  
Study of the buyer decision-making process, both consumer and industrial, for the purpose of planning and implementing successful marketing strategies. Includes an examination of both the internal psychological and external sociological factors influencing the decision-making process, and how these factors relate to strategic marketing decisions such as product development, segmentation, and positioning.

MKTG 411. MARKETING RESEARCH. 4 Credits.  
**Pre-requisites:** MKTG 310 and DSCI 346.  
A practical and theoretical approach to understanding and applying the procedures and methods used in collecting and analyzing market information for managerial decision-making. Topics include research design, data collection, sampling, questionnaire design, qualitative research methods, processing and interpreting data, and presentation of findings. An applied approach provides practical application of methods studied.

MKTG 412. MARKETING MANAGEMENT. 4 Credits.  
**Pre-requisites:** MKTG 400 and MKTG 411.  
An exploration of key marketing management variables such as buyer behavior, market segmentation and product positioning, product policy, pricing, distribution, promotion and market research in the contexts of strategy development, decision making, implementation and control.
Math - Developmental (MTHD)

MTHD 103. BASIC ALGEBRA/COLLEGE STUDENTS. 5 Credits.
Notes: this course is a substitution for the previous MATH 103 and 103A&B; graded Pass/No Credit.; does not count toward the 180 credit requirement.
Topics include algebraic properties of number systems, the algebra of polynomials, and algebraic, graphical and numerical solutions to equations of the first and second degree (as well as absolute value equations and literal equations).

MTHD 104. INTERMEDIATE ALGEBRA/COLLEGE STUDENTS. 5 Credits.
Notes: this course is a substitution for the previous MATH 104 and 104A&B; does not count toward the 180 credit requirement.
Pre-requisites: approved score in MTHD 103 or mathematics placement test or ≥2.0 in approved transfer course.
Topics are fundamentals of algebra, including rational equations; and radical, quadratic and exponential functions and equations.

MTHD 106. ALGEBRA REASONING. 5 Credits.
Notes: intended for students who are planning to use MATH 107 to complete the university proficiency in mathematics; does not count toward the 180 credit requirement.
Pre-requisites: approved score in MTHD 103 or placement test score equivalent to placement into MTHD 104.
Satisfies: completion of this course with a grade ≥2.0 satisfies pre university basic skill.
This course leads to mastery of basic algebraic skills involving linear models, systems of equations, proportional reasoning, and exponential growth. Students develop reasoning skills in the areas problem solving, unit conversion, graphical interpretation, counting strategies and interpreting slopes.

MTHD 196. EXPERIMENTAL COURSE. 5 Credits.
Experimental

Mathematics (MATH)

MATH 107. MATHEMATICAL REASONING. 5 Credits.
Pre-requisites: MTHD 104 or MTHD 106 or equivalent course, or a satisfactory score on the mathematics placement test (MPT); Computer Literacy Competency recommended.
Satisfies: completion of this course with a grade ≥2.0 satisfies the university proficiencies in mathematics.
The course explores sets, basic logic, truth tables, elementary probability and statistics, geometry and the connections between mathematics and art, exponential functions, logarithms and geometric series. The spirit of the course is one of reasoning and problem solving. This is a terminal course intended for students not taking any other mathematics courses for their program of study. This proficiency may be satisfied by examination.

MATH 114. ALGEBRA CONCEPTS. 5 Credits.
Notes: completion of this course with a grade ≥2.0 or better satisfies mathematics competency.
Pre-requisites: grade ≥2.0 or better in MTHD 104, or a satisfactory score on the mathematics placement test (MPT).
This course provides an in depth treatment of quadratic and exponential functions. Linear and logarithmic functions are also studied and rate of change of a function is introduced. Problem solving, use of graphing tools, and quantitative and abstract reasoning are emphasized throughout the course.
MATH 121. INTRODUCTORY STATISTICS. 5 Credits.
Pre-requisites: MTHD 104 or MTHD 106 or a satisfactory score on the mathematics placement test.
Satisfies: completion of this course with a grade ≥2.0 satisfies the university proficiencies in mathematics.
This course develops statistical literacy and the ability to think statistically, and understand how probability plays a role in statistical inference. Descriptive statistics and their graphical representations are used to summarize real and simulated data sets. Students understand how the variation present in a population affects the precision of estimates of population attributes. Confidence intervals and hypothesis testing are introduced, with an emphasis on understanding their use in context.

MATH 141. PRECALCULUS I. 5 Credits.
Pre-requisites: MATH 114 or equivalent course or a grade ≥3.0 in MTHD 104 or a satisfactory score on the mathematics placement test (MPT). This course includes modeling, rates of change and structure of functions; especially polynomial, rational, logarithmic and exponential. Problem solving, use of graphing tools and abstract reasoning are emphasized throughout the course.

MATH 142. PRECALCULUS II. 5 Credits.
Pre-requisites: MATH 141 or equivalent.
Satisfies: completion of this course with a grade ≥2.0 satisfies the university proficiencies in mathematics.
This course includes an in depth treatment of trigonometric and inverse trigonometric functions, identities, complex numbers, sequences, series, conic sections and mathematical induction. Polar coordinates, parametric equations and vectors are introduced. Problem solving, use of graphing tools, and quantitative and abstract reasoning are emphasized throughout the course.

MATH 161. CALCULUS I. 5 Credits.
Notes: for the university proficiencies, course may be substituted for MATH 107.
Pre-requisites: MATH 142 and ENGL 100.
A review of the concepts of functions, absolute value, open and closed intervals and solutions of inequalities. Limits, derivatives of single variable functions and their applications, anti-derivatives, the definite and integral.

MATH 162. CALCULUS II. 5 Credits.
Pre-requisites: MATH 161.
Applications of the definite integral, inverse functions, transcendental functions, techniques of integration, improper integrals, Taylor's formula.

MATH 163. CALCULUS III. 5 Credits.
Pre-requisites: MATH 162.
Polar coordinates, a brief treatment of conic sections, vectors, in R2 and R3, parametric equations, introduction to partial differentiation, sequences and series.

MATH 196. EXPERIMENTAL COURSE. 1-5 Credits.
MATH 199. SPECIAL STUDIES. 1-5 Credits.
Notes: does not count toward the 180 credit requirement.
Pre-requisites: permission of the instructor, department chair and college dean.

MATH 200. FINITE MATHEMATICS. 5 Credits.
Notes: for the university proficiencies, the course may be substituted for MATH 107.
Pre-requisites: MATH 114 or equivalent course, or a grade ≥3.0 in MTHD 104, or a satisfactory score on the mathematics placement test (MPT); Computer Literacy Competency recommended; ENGL 100 or placement into or above ENGL 101.
This course provides an introduction to the mathematical systems encountered in the study of the behavioral sciences and a study of matrices, linear systems, linear programming, set theory and probability.

MATH 211. STRUCTURE OF ELEMENTARY MATH I. 5 Credits.
Notes: for the university proficiencies, the completion of MATH 211 and MATH 212 may be substituted for MATH 107.
Pre-requisites: MATH 114 or equivalent course, or a 3.0 or better in MTHD 104, or a satisfactory score on the mathematics placement test (MPT); ENGL 100 or placement into or above ENGL 101 on the EWU Writing Test. This course is designed to give future K–8 teachers a basis for understanding elementary school mathematics. Topics include sets, number systems, functions and relations, operations on whole numbers, decimals and fractions, integers, percents, ratio and proportions and data analysis. There is a strong emphasis on conceptual understanding and problem solving.

MATH 212. STRUCTURE OF ELEMENTARY MATH II. 5 Credits.
Notes: for the university proficiencies, the completion of MATH 211 and MATH 212 may be substituted for MATH 107.
Pre-requisites: MATH 211. The course is designed to give future K–8 teachers a basis for understanding elementary school mathematics. Course topics include probability (including simple and complex experiments and fundamental counting principles), geometry (including relationships, symmetry and transformations) and measurement. All topics are approached from theoretical and practical perspectives.

MATH 225. FOUNDATIONS OF MATHEMATICS. 5 Credits.
Notes: you may not receive credit for both MATH 225 and MATH 301.
Pre-requisites: MATH 161.
Provides a transition from freshman-level to higher-level mathematics and is required for higher-level courses. Topics include logic, methods of proof, set theory, relations and functions and cardinality.

MATH 231. LINEAR ALGEBRA. 5 Credits.
Pre-requisites: MATH 142.
Theory and practice of vector geometry in R2 and R3, systems of linear equations, matrix algebra, determinants, vector spaces, bases and dimension, linear transformations, eigenvalues and eigenvectors, rank and nullity and applications.

MATH 241. CALCULUS IV. 5 Credits.
Pre-requisites: MATH 163.
Differentiation of functions of several variables, multiple integrals, vector calculus. This course should be taken immediately after MATH 163, when possible.

MATH 296. EXPERIMENTAL COURSE. 1-5 Credits.
MATH 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 3-5 Credits.
MATH 298. SEMINAR. 1-5 Credits.
MATH 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
MATH 301. DISCRETE MATHEMATICS. 5 Credits.
Notes: for the university proficiencies, the course may be substituted for MATH 107; you may not receive credit for both MATH 225 and MATH 301.
Pre-requisites: MATH 142.
This course covers the theory and application of the mathematics most relevant to computer science. Foundation topics include logic, induction and recursion, methods of proof, set theory, relations and functions, and combinatorics. Implementation topics include graphs and matrices, including systems of linear equations, two dimensional rotation matrices and matrix representations of graphs, as well as selected topics in graph theory.

MATH 307. MATHEMATICAL COMPUTING LABORATORY III. 1 Credit.
Notes: the laboratory may be repeated for credit.
Pre-requisites: successful completion of CPLA 100 and 101 or CPLA 120 and permission of the instructor.
The laboratory consists of exercises, experiments and reports, using applications, calculators or mathematical software such as Maple, Mathematica, Matlab, Minitab, Geometer's Sketchpad or SAS, on topics closely related to the contents of the designated concurrent mathematics course. However, the laboratory is not required by the designated course. The topics are specified in the section subtitles.

MATH 311. FUNCTIONS AND RELATIONS FOR K-8 TEACHERS. 5 Credits.
Pre-requisites: MATH 114 or equivalent or satisfactory score on MPT; MATH 211 and MATH 212; CPLA 100 and CPLA 101 or equivalent.
A discussion of the algebraic concepts of functions and relations from numeric, graphic and symbolic viewpoints.

MATH 312. GEOMETRY FOR THE K-8 TEACHER. 5 Credits.
Pre-requisites: MATH 212.
Concepts from two- and three-dimensional geometry are explored and demonstrated. The course includes geometric proofs and requires the use of technology widely used in the K–12 system (and available in the Mathematics Department).

MATH 320. HISTORY OF MATHEMATICS. 4 Credits.
Pre-requisites: ENGL 201; MATH 225 or permission of the instructor.
A historical development of mathematical ideas and methods. Emphasizes the individuals involved, the development of the intellectual activity called mathematics and the ebb and flow of mathematics in history.

MATH 331. DISCRETE MATHEMATICS WITH APPLICATIONS. 5 Credits.
Pre-requisites: MATH 225 or both MATH 161 and MATH 301.
Graph theory, chaos theory and fractals, combinatorics, combinatorial game theory and the surreal numbers. Selected applications for each topic.

MATH 332. NUMBER THEORY. 5 Credits.
Pre-requisites: MATH 225.
Arithmetic in different bases, fundamental theorem of arithmetic, modular arithmetic, Wilson's and Fermat's theorems, RSA codes, perfect numbers, linear and quadratic congruences, quadratic reciprocity, Pythagorean triples, Gaussian integers and arithmetic in other settings, Fermat's last theorem and the method of descent.

MATH 341. TOPICS IN APPLIED ANALYSIS I. 4 Credits.
Pre-requisites: for MATH 341: MATH 163; for MATH 342 and MATH 343: MATH 241.
Selected topics in applied mathematics such as vector analysis, complex variables, partial differential equations, etc.
MATH 401. ADVANCED FORMAL LOGIC. 5 Credits.
Pre-requisites: PHIL 301 or math equivalent and successful completion of ENGL 101 and recommended placement above MTHD 104 on the mathematics placement test or MTHD 104 or equivalent.
Advanced study of formal deductive systems. Develops predicate logic on a rigorous basis, establishes some important metatheorems for logical systems and introduces some concepts in semantics and issues in the philosophy of logic.

MATH 407. MATHEMATICAL COMPUTING LABORATORY IV. 1 Credit.
Notes: the laboratory may be repeated for credit.
Pre-requisites: successful completion of successful completion of CPLA 100 and 101 or CPLA 120 and permission of the instructor.
The laboratory consists of exercises, experiments and reports, using applications, calculators or mathematical software such as Maple, Mathematica, Matlab, MINITAB, Geometer's Sketchpad or SAS, on topics closely related to the contents of the designated concurrent mathematics course. However, the laboratory is not required by the designated course. The topics are specified in the section subtitles.

MATH 411. DISCRETE MATHEMATICS FOR K-8 TEACHERS. 4 Credits.
Pre-requisites: MATH 161 or MATH 311.
This course introduces the elementary mathematics major to the process of doing mathematics via mathematical proofs and mathematical reasoning. Throughout the course, familiar topics will be approached in a less intuitive, more formal way and in greater depth than previously experienced. Topics to be covered include logic; sets, functions and sequences; methods of proof; and combinatorics.

MATH 413. DATA ANALYSIS AND PROBABILITY FOR MIDDLE LEVEL TEACHERS. 3 Credits.
Pre-requisites: MATH 212 and MATH 311; MTED 412 or concurrent enrollment.
Through readings, discussion and a hands-on problem-centered approach, students develop a profound understanding of concepts of data analysis and probability. Students deepen their understanding of the research on the teaching and learning of data analysis and probability in K–9 mathematics.

MATH 416. CALCULUS FOR MIDDLE LEVEL TEACHERS. 4 Credits.
Pre-requisites: MATH 141 or MATH 311.
This course is intended for pre-service middle school teachers and focuses on conceptual and procedural understandings of limit, continuity, differentiation and integration. It includes the techniques and applications of calculus and use of technology to explore and represent fundamental concepts of calculus.

MATH 420. PROBLEM SOLVING FOR K-8 TEACHERS. 4 Credits.
Pre-requisites: MTED 390 (or math teaching experience) and MATH 311 or equivalent course approved by the department and CPLA 100 and CPLA 101 or the equivalent.
This math content course for prospective K-8 teachers requires students enrolled in the class to solve a large variety of problem-solving problems using a variety of strategies including the use of manipulatives, technology and mathematical representations. Techniques for teaching problem solving are discussed in the course. The use of a variety of types of technology is a required component of the course.

MATH 430. ADVANCED LINEAR ALGEBRA. 5 Credits.
Pre-requisites: MATH 225 and MATH 231.
This course provides an advanced study of linear algebra. Topics will be Jordan decomposition, inner product spaces, hermitian operators. Applications to other branches of mathematics, physics and chemistry will be included.

MATH 431. APPLIED GROUP THEORY. 5 Credits.
Pre-requisites: MATH 225 and MATH 231.
Groups, cyclic and permutation groups, cosets and Lagrange's theorem, Cayley graphs, group actions, counting theorems with applications, tilings and groups of symmetries with applications.

MATH 432. RINGS AND POLYNOMIALS. 5 Credits.
Pre-requisites: MATH 225 and MATH 231.
Binary operations and algebras, rings and polynomials, factor rings and ideals, integral domains and fields (both finite and infinite), factor theorems, prime, irreducible and unique factorization, power series and differential operators, applications including computer algebra techniques, digital communication and encryption.

MATH 433. GALOIS THEORY. 5 Credits.
Pre-requisites: MATH 432.
Field theory, splitting fields, Galois groups, fundamental theorem of Galois theory, applications to classical problems of Euclidean constructibility and solvability by radicals, applications of the theory to encryption and digital communication.

MATH 444. NUMERICAL LINEAR ALGEBRA. 5 Credits.
Pre-requisites: MATH 161 and MATH 231.
This course develops numerical linear algebra and error estimates essential for scientific computing: machine arithmetic, algorithms for solving systems of linear equations, algorithms for computing eigenvalues and singular values (LU, QR, Jacobi's and SVD) and the theory of error estimates through condition numbers and backward analysis. The course also includes such topics as the design and analysis of algorithms for floating-point arithmetic, linear regression, orthogonal linear regression, linear programming, or cubic splines, with applications to engineering and the sciences. Typical applications are Google PageRank, Kalman filtering, data compression and image processing with wavelets. This course requires the use of computers and software available at EWU.

MATH 445. NUMERICAL ANALYSIS. 5 Credits.
Pre-requisites: junior or higher standing; MATH 444.
The course combines numerical linear algebra with numerical differentiation and integration and derive methods of scientific computing: numerical differentiation and integration, existence, uniqueness, stability and numerical approximation of solutions to nonlinear systems and of ordinary or partial differential equations, splines and fast Fourier or wavelet transforms. The course also includes such applications to engineering and the sciences as the design and analysis of algorithms to compute special functions, computed geometric design, fluid dynamics, heat diffusion or financial Black-Scholes models, image processing or nonlinear regression.

MATH 447. DIFFERENTIAL EQUATIONS. 5 Credits.
Pre-requisites: MATH 225, MATH 231 and MATH 347.
This course is an advanced study of ordinary differential equations focusing on linear and nonlinear systems, with analytical, qualitative, and numerical methods of solution including Euler's method, matrix exponential, stability, phase plane analysis, linearization, Lyapunov functions, existence and uniqueness and applications. This course provides experience with mathematical software.
MATH 448. PARTIAL DIFFERENTIAL EQUATIONS. 5 Credits.
Pre-requisites: MATH 225 and either MATH 347 or MATH 444.
This course is an advanced study of partial differential equations via boundary value problems and Fourier series representations, centered on classical and numerical solutions of the heat equation, wave equation, advection equation and Laplace equation, introductory finite differences, modeling applications and use of technology through mathematical software. Selected topics may include Bessel's inequality, energy methods, existence and uniqueness, eigenfunction expansions and integral transforms.

MATH 460. CONTINUOUS FUNCTIONS. 5 Credits.
Pre-requisites: MATH 163 and MATH 225.
The course lays out the foundations for calculus and analytical geometry; the course develops the topology of the n-dimensional real Euclidean space. Topics include the completeness of the real numbers, topological spaces, continuity and properties preserved by continuous functions: compactness and connectedness.

MATH 461. ADVANCED CALCULUS I. 5 Credits.
Pre-requisites: MATH 241 and MATH 460.
This course applies notions from linear algebra and continuous functions to develop the calculus of functions of several variables. Topics include differentiability, the derivative as a linear transformation, extreme value problems and the implicit and inverse function theorems.

MATH 462. ADVANCED CALCULUS II. 5 Credits.
Pre-requisites: MATH 461.
This course builds on topics introduced in MATH 461, and develops integration with differential forms. Topics include line integrals, exterior algebra and a general form of Stokes's theorem; the course includes selected applications to algebraic topology and fluid dynamics, if time permits.

MATH 470. FOUNDATIONS OF GEOMETRY. 5 Credits.
Pre-requisites: MATH 225 and MATH 231 or concurrent enrollment.
The course includes the study of Euclidean and non-Euclidean isometries. Selected topics in advanced geometry stressing applications to other branches of mathematics, physics, chemistry and biology will be explored.

MATH 481. COMPLEX ANALYSIS. 5 Credits.
Notes: MATH 225 and MATH 460 are recommended.
Pre-requisites: MATH 163.
The course proves relations between derivatives, integrals along curves, Maclaurin series, and singularities of complex-valued functions of a complex variable, in particular, theorems of Abel, Cauchy-Goursat, Green, Laurent, Liouville, Morera, Riemann and Rouche (\(\backslash\text{\textcopyright}\)). Applications include the solution of Laplace's partial differential equation by Green's functions (Cauchy's and Poisson's integral formulae) or Fourier Transforms. Detailed proofs of theorems also provide a theoretical foundations for the corresponding theorems from calculus with one or two variables: differentiation and integration of power series and Fourier series, differentiation relative to parameters of integrals along curves and the fundamental theorem of algebra.

MATH 485. PROBABILITY AND STATISTICAL INERENCE II. 5 Credits.
Pre-requisites: MATH 231, MATH 241 and MATH 385 or permission of the instructor.
This course covers a variety of statistical methods for research in the natural sciences, including analysis of variance, multiple regression, general linear models and nonparametric statistical procedures. One or more additional topics will be selected by the students in consultation with the instructor teaching the course. Use of statistical software will be emphasized.

MATH 486. PROBABILITY AND STATISTICAL INERENCE III. 5 Credits.
Pre-requisites: MATH 485 or permission of the instructor.
This course covers advanced topics in probability and statistical inference including discrete and continuous multivariate distributions, moment generating functions, proof of the central limit theorem, properties of estimators including efficiency and sufficiency, best linear unbiased estimators (BLUE), maximum likelihood estimation, the Neyman-Pearson lemma and likelihood ratio tests. The course concludes with a practical student-project component in which students apply methods learned to the analysis of a real-world data set.

MATH 491. SENIOR THESIS. 5 Credits.
Pre-requisites: MATH 231, MATH 241, MATH 347, MATH 385, MATH 460.
Satisfies: senior capstone university graduation requirement.
This course provides students with an opportunity to research a mathematical topic and present their findings in writing and orally.

MATH 492. PROBLEM SOLVING SEMINAR. 5 Credits.
Pre-requisites: MATH 225 or permission of the instructor; MATH 380 or MATH 385.
The course examines various problem solving strategies and techniques for teaching problem solving at the secondary level such as direct proof, indirect proof, inferences, mathematical representations and the use of technology.

MATH 494. SENIOR SEMINAR. 2 Credits.
Pre-requisites: for students pursuing the BA in Mathematics: prior or concurrent enrollment in MATH 462 and MATH 432; for students pursuing the BAE Secondary: prior or concurrent enrollment in MATH 432 and MTED 493.
The Senior Seminar course will explore the culture of mathematics through readings and classroom discussions. The students will be required to write a paper on some aspect of mathematics. At the same time, students will review the core mathematics they have studied and comprehensive tests will be administered in order to assess the knowledge they have acquired in their degree programs.

MATH 496. EXPERIMENTAL COURSE. 1-5 Credits.

MATH 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Selected topics to be arranged in consultation with the requesting organization.

MATH 498. SEMINAR. 1-5 Credits.

MATH 499. DIRECTED STUDY. 1-5 Credits.

MATH 507. MATHEMATICAL COMPUTING LABORATORY. 1 Credit.
Notes: the laboratory may be repeated for credit.
Pre-requisites: concurrent enrollment in or prior credit for a 500-level mathematics course designated by the Department of Mathematics each academic term.
The laboratory consists of exercises, experiments and reports, with applications or calculators or with such mathematical software as Maple, Mathematica, Matlab, MINITAB, Geometer's Sketchpad or SAS, on topics closely related to the contents of the designated concurrent mathematics course. However, the laboratory is not required by the designated course.
The topics are specified in the section subtitles.
MATH 510. NUMBER SENSE FOR TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of the concepts of numeration systems, base ten and place value, operations, fractions, decimals, percents, integers, real numbers and number theory and will deepen their understanding of the research on the teaching and learning of these topics in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to these number-sense topics.

MATH 511. RATIO AND PROPORTION - TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of the concepts of ratio and proportion and deepen their understanding of the research on the teaching and learning of ratio and proportion in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to ratio and proportion.

MATH 512. GEOMETRIC REASONING - TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of geometry concepts and deepen their understanding of the research on the teaching and learning of geometry concepts in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to geometry.

MATH 513. DATA ANALYSIS AND PROBABILITY FOR TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of concepts of data analysis and probability and deepen their understanding of the research on the teaching and learning of data analysis and probability in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to data analysis and probability.

MATH 514. ALGEBRAIC REASONING - TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of algebraic reasoning and deepen their understanding of the research on the teaching and learning of algebraic reasoning in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to algebraic reasoning.

MATH 515. MEASUREMENT FOR TEACHERS. 3 Credits.
Pre-requisites: graduate standing.
Through readings, discussion and a hands-on problem-centered approach, students will develop a profound understanding of measurement concepts and deepen their understanding of the research on the teaching and learning of measurement in K–9 mathematics. Major emphases will be learners’ cognitive development through and across different grade levels, including that of diverse and exceptional learners, typical student conceptions and misconceptions, meaningful use of representations and technology in developing understanding and state and national standards related to measurement.

MATH 516. CALCULUS FOR MIDDLE LEVEL TEACHERS. 4 Credits.
Pre-requisites: graduate standing and MATH 311 or equivalent.
This course is intended for middle school teachers and focuses on conceptual and procedural understandings of limits, continuity, differentiation and integration. It includes the techniques and applications of calculus and use of technology to explore and represent fundamental concepts of calculus. It also addresses the historical development of calculus and the contributions to its development from many cultures. Students will create a project focusing on connections between calculus, the middle school curriculum and current understandings of how students learn mathematics.

MATH 528. PROBLEM-CENTERED LEARNING. 3 Credits.
Pre-requisites: graduate standing.
This course explores how to create classroom environments where rich tasks form the basis for mathematical learning. Special emphasis will be placed on task construction, selection and problem-posing. Participants will engage in a series of non-routine problem-solving activities. They will also be expected to develop non-routine problem-solving activities addressing specific mathematical ideas. These activities will serve as a basis for examining and reflecting on the research about and the implications of such an approach to the teaching and learning of mathematics.

MATH 531. ALGEBRA I. 4 Credits.
Pre-requisites: MATH 431 or permission of the instructor.
The theory of groups, starting at the Sylow Theorems. Topics: group actions, normal series, solvable and nilpotent groups, structure theorem for abelian groups, semidirect products, extensions.

MATH 539. SEMINAR IN SPECIAL TOPICS. 1-5 Credits.
MATH 573. TOPICS IN APPLIED MATHEMATICS. 4 Credits.
Notes: may be repeated for credit.
Pre-requisites: graduate standing or permission of the instructor.
The course focuses on the mathematics of applications, depending on the interests of the class and the instructor. Topics will be specified in the section subtitle.

MATH 581. COMPLEX ANALYSIS I. 4 Credits.
This course establishes the basic properties of holomorphic functions, including complex derivatives, power series, singularities, residues and the general integral formula of Cauchy. In particular, the course proves such classical results as the Fundamental Theorem of Algebra, the Open Mapping Theorem, the Maximum Principle and the theorems of Weierstrass, Montel or Loosman-Menchoff. This course also presents examples of elementary conformal mappings, with optional applications to cartography or physics, from geometric or analytic points of view.
MATH 582. COMPLEX ANALYSIS II. 4 Credits.
Pre-requisites: MATH 581.
Continues MATH 581 through the proofs of advanced results, such as the general Riemann Mapping Theorem, or properties of the special functions of Riemann and Weierstrass. If time permits, may include application to Algebraic Geometry, Number Theory and Coding or extensions to several complex variables, for example.

MATH 596. EXPERIMENTAL COURSE. 1-5 Credits.

MATH 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

MATH 598. SEMINAR. 1-5 Credits.
Pre-requisites: permission of the instructor.

MATH 599. DIRECTED STUDY. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

MATH 600. THESIS. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
A research thesis under the direction of a graduate committee.

MATH 601. RESEARCH REPORT. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
A research study in lieu of a bound thesis conducted as partial fulfillment of a master's degree in education under the direction of a graduate committee.

MATH 696. COLLEGE TEACHING INTERNSHIP. 1-5 Credits.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and instructional aids, conferences with students, experience in classroom instruction and student course evaluation.

Mathematics Education (MTED)

MTED 290. EARLY MATH PRACTICUM. 3 Credits.
Pre-requisites: MTED 390 or permission of Mathematics Education Committee.
This course is primarily an early field experience for students majoring in mathematics education. Students are in a classroom, co-plan and co-teach lessons, tutor students and participate in seminar.

MTED 299. DIRECTED/INDEPENDENT STUDY. 1-5 Credits.
Independent/Directed Study.

MTED 390. METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS. 5 Credits.
Pre-requisites: MATH 211 and MATH 212 or department approved equivalents; EDUC 310 or concurrent enrollment.
This course is designed to teach current methods for teaching math (grades K–8).

MTED 392. METHODS OF TEACHING SECONDARY MATH I. 3 Credits.
Pre-requisites: EDUC 200, MATH 225.
This course is designed to address the development and evaluation of select content and process standards involved in middle and early high school algebra: measurement, modeling, equivalence, algebraic manipulation, proportion and communication in middle and high school. It includes the use of traditional, technological and manipulative materials consistent with current theory and practice.

MTED 393. METHODS OF TEACHING SECONDARY MATHEMATICS II. 3 Credits.
Notes: if through communication with your major and minor advisors you determine that taking MTED 393 concurrently with EDUC 413 will result in an overload, please contact the instructor of MTED 393.
Pre-requisites: MTED 392 and concurrent enrollment in EDUC 413.
This course is designed to address the development and evaluation of select content and process standards involved in the preparation of students for calculus: variation, algebra, functions, rate of change and communication in high school. It includes the use of traditional, technological and manipulative materials consistent with current theory and practice.

MTED 396. EXPERIMENTAL. 1-5 Credits.
Experimental.

MTED 399. INDEPENDENT DIRECTED STUDY. 1-6 Credits.
Independent and directed study.

MTED 412. ADVANCED METHODS OF TEACHING K-8 MATHEMATICS. 5 Credits.
Pre-requisites: MTED 390 and MATH 311 or MTED 493 or approval of the instructor; and CPLA 100 and CPLA 101 or the equivalent.
Advanced course in methods of teaching math (grades K–8), including the (required) use of technology. Focused on the teaching of topics in measurement, probability and statistics, algebraic reasoning, ratio and proportion and geometry.

MTED 490A. SENIOR CAPSTONE: ELEMENTARY PRACTICUM. 5 Credits.
Pre-requisites: MTED 390 and MTED 412 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course is a practicum for students majoring in Mathematics Education. Students will work with students in a K-12 mathematics classroom (3 credits) and participate in a seminar (2 credits). Lessons will be planned and taught. Emphasis will be on putting educational theory into practice and reflecting on the process, particularly in the areas of problem solving, the NCTM Standards, use of manipulative materials and assessment. MTED 490A will fulfill the Senior Capstone requirement for the BAE Math/Elementary majors, and MTED 490B will fulfill the Senior Capstone requirement for the BAE Math/Secondary majors.

MTED 490B. SENIOR CAPSTONE: SECONDARY PRACTICUM. 5 Credits.
Pre-requisites: MTED 393 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course is a practicum for students majoring in Mathematics Education. The students will do a pre-student teaching classroom experience in a K-12 mathematics classroom (3 credits) and participate in a seminar (2 credits). Lessons will be planned and taught. Emphasis will be on putting educational theory into practice and reflecting on the process, particularly in the areas of problem solving, the NCTM Standards, use of manipulative materials and assessment. MTED 490A will fulfill the Senior Capstone requirement for the BAE Math/Elementary majors, and MTED 490B will fulfill the Senior Capstone requirement for the BAE Math/Secondary majors.
MTED 493. METHODS OF TEACHING SECONDARY MATHEMATICS III. 3 Credits.
Notes: if through communication with your major and minor advisors you
determine that taking MTED 493 concurrently with EDUC 341 will result in
an overload, please contact the instructor of MTED 493.
Pre-requisites: MTED 393, MATH 370 and MATH 380 or MATH 385.
Concurrent: EDUC 341.
This course is designed to address the development and evaluation of
select content and process standards—geometry, measurement,
statistics, probability, problem solving, connections and communication
in the middle and high school. The course includes the use of traditional,
technological and manipulative materials consistent with current theory
and practice.

MTED 499. DIRECTED STUDY. 1-5 Credits.
Directed Study.

MTED 525. ASSESSMENT AND MATHEMATICS LEARNING. 3 Credits.
Pre-requisites: graduate standing.
This course explores the relationship between assessment and
mathematics learning. In particular, we will focus on the forms and
purposes of assessment in the mathematics classroom, including
the alignment of assessment to instruction, use of multiple sources
of assessment information as evidence of learning and appropriate
methods. Through readings, discussion and a hands-on problem-centered
approach, students will extend their understanding of the research
on assessment and the roles of assessment in K–9 mathematics
classrooms.

MTED 527. TECHNOLOGY IN MATH TEACHING. 3 Credits.
Pre-requisites: graduate standing.
This course will explore the appropriate use of technology in
mathematics education from philosophical, social, theoretical and
pedagogical perspectives. It will provide perspectives on current
and future trends and issues regarding the use of technology in
mathematics teaching and learning. Students will use technology to
solve mathematical problems, create mathematical demonstrations and
construct new ideas of mathematics. Special attention is devoted to
developing a deep understanding of the appropriate use of technology to
explore and learn mathematics.

MTED 529. TOPICS IN MATH EDUCATION. 3 Credits.
Notes: may be repeated for credit with different topics.
Pre-requisites: graduate standing.
This course includes topics regarding the teaching and learning of
mathematics selected depending on the interest of the class and
instructor. Possible topics may include (but are not limited to): history
and culture of mathematics, history of mathematics education, systems
theory and learning and equity. Topics will be specified in the section
subtitle.

MTED 590. MATH METHODS FOR ELEMENTARY TEACHERS. 5 Credits.
Pre-requisites: bachelor's degree or permission of instructor.
Designed to expose participants to a variety of instructional techniques
for teaching mathematics concepts and skills at the K–8 level. Strengths
and weaknesses of different techniques, such as lecture demonstration,
small-group activities and problem solving are modeled and discussed.

MTED 592. THEORY AND RESEARCH IN MATHEMATICS EDUCATION. 3 Credits.
Pre-requisites: graduate standing.
This course is designed for graduate students in mathematics education
who intend to pursue or further teaching careers. This course will explore
the history of research in mathematics education; discuss various
theories of mathematics learning; evaluate, synthesize and critique
mathematics education research; and become acquainted with a diverse
sample of quantitative and qualitative studies in mathematics education,
as well as, with issue of current interest within the community. The
course will be focused on issues that mathematics teachers should
understand and investigate; including both content and research
methods. In addition, students will be expected to select a mathematics
content and/or pedagogical topic for particular emphasis in the course
and conduct a research review. Students will leave the course with an
understanding of the history of mathematics education research and of
the use of research to inform teaching practice.

MTED 599. INDEPENDENT STUDY. 1-6 Credits.

MTED 694. MATHEMATICS MIDDLE LEVEL TEACHING INTERNSHIP. 4 Credits.
Pre-requisites: four courses from the MATH 510 to MATH 516 series and
MTED 525 or MATH 528.
This course is a field experience in a middle level mathematics
classroom. Candidates will demonstrate competency at designing
and implementing mathematics instruction, guided by continuous
formative assessment, that enables a broad diversity of learners to
construct meaning, create and defend conjectures, solve problems, utilize
procedures and notation, and monitor their learning.

MTED 695. MATHEMATICS EDUCATION INTERNSHIP. 6 Credits.
Pre-requisites: graduate standing; permission of the instructor,
derpartment chair and college dean.
The theories of teaching and learning mathematics explored in MATH
592 Theory and Research in Mathematics Education are made practically
relevant in this course, as student teach classes such as MATH 211 or
MATH 212 while being mentored by faculty having experience with those
classes. One-hour weekly seminars complement the in-class teaching
assignment.

Mechanical Engineering (MENG)

MENG 199. DIRECTED STUDY. 1-5 Credits.
Directed Study

MENG 201. MATLAB. 4 Credits.
Pre-requisites: MATH 141.
This course introduces the student to the application of basic MATLAB
building blocks to engineering problems. Students will get a thorough
introduction to data visualization, data analysis, symbolic calculations,
numeric computations and other basic skills related to MATLAB.

MENG 207. ELECTRICITY. 4 Credits.
Pre-requisites: MATH 162, PHYS 153 or PHYS 133.
This course is intended to provide students with a basic understanding of
electricity and its applications. In this course, basic concepts of current,
voltage and resistance will be presented as well as basic circuit-analysis
methods including inductor and capacitor.
MENG 217. 3D PARAMETRIC COMPUTER AIDED DESIGN. 4 Credits.
Pre-requisites: METC 110 or High School AUTOCAD or permission of instructor
This course uses the computer to draft parametric models in three dimensions. File management methods, rapid prototyping and 2D drawing development techniques are discussed. (Four hours per week.)

MENG 240. STATICS. 4 Credits.
Pre-requisites: PHYS 151, MATH 161 or Technical Calculus I or equivalent.
Fundamentals of applied mechanics, equivalent force systems, equations of equilibrium, structures, three dimensional force systems and friction. (two hours lecture, four hours laboratory per week)

MENG 241. STRENGTH OF MATERIALS. 4 Credits.
Pre-requisites: MENG 240, MATH 162, PHYS 152 or Technical Calculus II or equivalent.
A study of the internal stresses, internal deformations and deflections of materials. Topics may include: shear and moment diagrams for beams, combined loading on beams, temperature stresses and torsional loading. (four hours lecture per week)

MENG 242. DYNAMICS. 4 Credits.
Pre-requisites: MENG 240.
Kinematics and kinetics of particles and rigid bodies using vector analysis; force mass acceleration, work and energy, impulse and momentum, translating and rotating coordinate system.

MENG 353. INDUSTRIAL MATERIALS. 5 Credits.
Pre-requisites: CHEM 121 or CHEM 151.
Students in this course achieve a thorough understanding of engineering materials, their properties, responses and applications. Laboratory work includes destructive and non-destructive testing and image analysis of microscopic structure of industrial materials.

MENG 380. THERMODYNAMICS. 5 Credits.
Pre-requisites: PHYS 152; MATH 162; ENGR 381 (may be taken concurrently).
This course explores properties of materials, work, heat, conversion of energy, conservation of mass and energy transformation processes. Emphasis is on application of the first and second laws to engineering systems.

MENG 381. LABORATORY ANALYSIS AND REPORTS. 5 Credits.
Pre-requisites: PHYS 153 or PHYS 133, MATH 162.
This course examines the different aspects of laboratory analysis and report writing. This includes description of engineering problems, analysis of data including error analysis and data interpretation, instrumentation and measurements. In addition, the application of spreadsheets for solving and analyzing engineering problems, creating technical graphs, trending and curve fitting and project management will be addressed.

MENG 382. FLUID MECHANICS. 5 Credits.
Pre-requisites: PHYS 152; MATH 162; MENG 381 (may be taken concurrently).
This course introduces the student to theory, concepts and applications of fluid mechanics. Topics include static and dynamic forces; conservation of mass, energy and momentum; flow in pipes and ducts; and fan and pump performance. Laboratory work is included.

MENG 385. ROBOTICS AND AUTOMATION. 5 Credits.
Pre-requisites: MENG 207 or TECH 208 or permission of the instructor.
This course covers various electrical and mechanical systems used in robotics and other automated industrial systems. It includes automated equipment programming and industrial planning as applied to automated systems. (3 hours lecture, 4 hours laboratory per week)

MENG 386. ENGINEERING NUMERICAL ANALYSIS. 5 Credits.
Pre-requisites: PHYS 153; MATH 163; and either MENG 201 or CSCD 255.
This course covers a multitude of numerical approximation methods used to solve specific structural engineering problems and highlights the algorithms used in many common scientific software packages.

MENG 398. SEMINAR. 1-5 Credits.
Seminar

MENG 399. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

MENG 405. DESIGN OF MACHINE ELEMENTS. 5 Credits.
Pre-requisites: MATH 162, MENG 241, MENG 353.
This course covers the design of machine components and mechanisms and utilizes the concepts of engineering mechanics and strength of materials.

MENG 407. HVAC. 5 Credits.
Pre-requisites: PHYS 132 or PHYS 152.
The study of the principles of Heating, Ventilating and Air Conditioning (HVAC) including the investigation of the basic calculations to determine heating and cooling loads and the study of the basic equipment design for HVAC.

MENG 412. FUNDAMENTALS OF ENGINEERING. 2 Credits.
Pre-requisites: senior standing in ME, MET, CET or EE; or permission of instructor.
This course reviews the fundamentals of engineering. It provides an overview of principles of the practice of engineering and assists students in preparation for the first steps in professional licensure.

MENG 444. HEAT TRANSFER. 5 Credits.
Pre-requisites: MATH 241, MATH 347, MENG 380, MENG 381 (MENG 381 may be taken concurrently), and MENG 386.
This course provides a detailed calculus-based analysis of the heat transfer through solids, fluids and vacuums. Concepts include convection, conduction, radiation, heat transfer in one and two dimensions for steady and unsteady states.

MENG 452. ENGINEERING ECONOMICS. 2 Credits.
Pre-requisites: junior standing or permission of instructor.
This course focuses on the systematic evaluation of the economic benefits and costs of projects involving engineering design and analysis. Engineering economics quantifies the benefits and costs associated with engineering projects to determine whether they make (or save) enough money to warrant their capital investment.

MENG 453. MATERIALS AND DESIGN. 5 Credits.
Pre-requisites: MENG 241, MENG 353.
This course expands upon the concepts covered in the Industrial Materials class. Focus is on how materials and the design of products and the processes to make them are interrelated. Students explore processing and properties of materials such as glass, ceramics, polymers and metals other than steel.
MENG 455. COMPOSITE MATERIALS. 5 Credits.
Pre-requisites: MENG 201, MENG 353.
This course covers basics of composite materials including manufacturing, design and applications. Students learn anisotropic and heterogeneous material systems; types of composite constituents; physical and mechanical properties; micro, macro and ply mechanics; composite design related to strength and different failure modes; and applications of composite beams, plates and stiffened panels.

MENG 482. ADVANCED FLUID DYNAMICS. 5 Credits.
Pre-requisites: MATH 347, MENG 217, MENG 382.
Students apply fluid principles to various technical situations and utilize advanced methods to derive a solution. Topics covered may include Computational Fluid Dynamics (CFD), turbo machinery, compressible fluid flow, turbulence, thermo-fluid system design, and fan and pump performance.

MENG 485. ADVANCED ROBOTICS AND AUTOMATION. 5 Credits.
Pre-requisites: MENG 385.
A study of the various electrical and mechanical systems used in advanced robotics and other automated systems. Topics include automated equipment, programming and industrial planning as applied to automated systems, robotic vision, cooperative robotics and service robots.

MENG 486. PROGRAMMABLE LOGIC CONTROLLERS IN AUTOMATION. 5 Credits.
Pre-requisites: MENG 385.
A study of Programmable Logic Controllers used in industrial automation and advanced robotics. Course explores automated equipment, ladder logic programming and industrial planning as applied to automated systems.

MENG 487. SENSORS THEORY FOR AUTOMATION. 5 Credits.
Pre-requisites: MENG 385.
This course covers basics of sensors used in robotics and automation, including the theory of how sensors work, the circuitry involved and the programming logic for input/output.

MENG 490A. SENIOR CAPSTONE: DESIGN LABORATORY I. 2 Credits.
Pre-requisites: MENG 217, MENG 241, TECH 301 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course simulates the industrial environment, where students work in teams to solve a real world problem from design to implementation. Team dynamics and project constraints are strictly monitored and each student’s unique skills are utilized in different stages of the design process.

MENG 490B. SENIOR CAPSTONE: DESIGN LABORATORY II. 3 Credits.
Pre-requisites: MENG 490A.
Satisfies: senior capstone university graduation requirement.
See description for MENG 490A.

MENG 491. SENIOR THESIS. 1-6 Credits.
Pre-requisites: permission of instructor.
Independent and/or group study and implementation of a design and development project. (variable time)

MENG 492. FINITE ELEMENT ANALYSIS. 5 Credits.
Pre-requisites: MATH 347, MENG 217, MENG 241.
This course introduces the computational methods to solve engineering problems using the finite element approach. Modeling techniques for different engineering structures such as truss, beams, frames, two and three dimensional solids, and thin-walled structures are introduced in this course. Students solve a wide variety of engineering problems dealing with statics, dynamics, fluid mechanics, heat transfer and design and material selections using the state of art FEA software.

MENG 493. SENIOR SEMINAR. 1 Credit.
Notes: graded Pass/Fail.
Pre-requisites: senior standing or permission of instructor.
This course provides the students firsthand exposure to the latest technological advances directly from the manufacturer or researcher. This helps students in their lifelong learning and provides an opportunity to inquire about particular topics or fields of interest.

MENG 495. INTERNSHIP. 1-6 Credits.
Notes: graded Pass/Fail.
Pre-requisites: junior or senior status and permission of the instructor, department chair and dean.

MENG 496. EXPERIMENTAL COURSE. 1-10 Credits.

MENG 499. DIRECTED STUDY. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Designed for students wanting to pursue a subject beyond the scope of regular courses.

Mechanical Engineering Tech (METC)

METC 102. INTRODUCTION TO ENGINEERING GRAPHICS. 4 Credits.
Notes: graded Pass/Fail.
This course offers an introduction to the fundamentals of technical drawing. It emphasizes the technical methods used to describe the size and shape of objects. This course will not satisfy elective requirements for a major or minor in Technology.

METC 110. ENGINEERING GRAPHICS. 5 Credits.
Pre-requisites: METC 102, two years of high school drafting or equivalent.
A study of the technical portion of the graphics language. This language, technical drawing, is used by engineers to communicate proposed designs and new ideas. Includes the theory and practice of descriptive geometry and the graphic representation of data.

METC 340. STATICS. 5 Credits.
Pre-requisites: PHYS 131 and MATH 142 or equivalent.
A study of applied mechanics and the principles of statics dealing with forces and with the effects of forces acting upon rigid bodies at rest. (four hours lecture per week)

METC 341. STRENGTH OF MATERIALS. 4 Credits.
Pre-requisites: METC 340.
A study of the relationship that exists between externally applied forces and internally induced stresses in members and parts, including the relationship existing between these same externally applied forces and the resulting deformations. (four hours lecture per week)

METC 342. DYNAMICS. 4 Credits.
Pre-requisites: METC 340 and MATH 162.
This course is a study of the motion of rigid bodies and forces affecting their motion. Topics include kinematics and kinetic motion, curvilinear motion, plane motion, work, energy and power, impulse and momentum. (four hours lecture per week)
METC 384. ENERGY MANAGEMENT AND UTILIZATION. 5 Credits.
Pre-requisites: MENG 380.
The study of energy usage and energy management within industrial facilities. The development of Energy audit procedures including the energy saving calculations for industrial settings. Students will develop and explore the creation of industrial energy audits through the extensive use of case studies.

METC 387. FLUID MECHANICS. 5 Credits.
Pre-requisites: PHYS 132 or PHYS 152, MATH 162; TCOM 205 or MENG 381 (may be taken concurrently). This course introduces the student to theory, concepts and applications of fluid mechanics. Topics include static and dynamic forces; conservation of mass, energy and momentum; flow in pipes and ducts; and fan and pump performance. Laboratory work is included.

METC 388. THERMODYNAMICS AND HEAT TRANSFER. 5 Credits.
Pre-requisites: PHYS 132 or 152; MATH 162; TCOM 205 or MENG 381 (may be taken concurrently). This course introduces the student to theory, concepts and applications of thermodynamics and heat transfer. Topics include properties of materials, work, heat, conservation of mass and energy, energy transformation processes, and heat transfer via conduction, convection and radiation.

METC 415. DESIGN OF MACHINE ELEMENTS. 5 Credits.
Pre-requisites: METC 341, MENG 353, and MATH 162 or permission of instructor.
This course covers the design of machine components and mechanisms and utilizes the concepts of engineering mechanics and strength of materials.

METC 417. ADVANCED PARAMETRIC DESIGN. 5 Credits.
Pre-requisites: MENG 217; MATH 162; METC 341 or MENG 241.
Advanced techniques and best practices for parametric design of parts and assemblies. These advanced methodologies include design simulation and analysis including stress analysis, thermal analysis, flow analysis, vibration and motion studies, and design optimization.

METC 456. ENGINEERING ETHICS, CONTRACTS AND PATENTS. 2 Credits.
Pre-requisites: junior standing or permission of instructor.
This course investigates the elements of professional engineering practice including their relationship to the law, to the public and the ethics of the profession. Topics covered range from ethics, contracts, patents, copyrights, sales agreements and engineering specifications to professionalism, licensing, intellectual property, liability, risk, reliability and safety. Further discussion areas involve interdisciplinary teams, team tools, codes, standards, professional organizations, careers, entrepreneurship, human factors and industrial design.

METC 468. QUALITY ASSURANCE AND INTRO TO LEAN. 5 Credits.
Pre-requisites: PHYS 132 or PHYS 152; MATH 162; TCOM 205 or MENG 381 (may be taken concurrently). Application and theory of quality control and continuous improvement systems. This includes statistical analysis, design of experiments, development and use of process control charts, sampling processes, time and motion studies, and introduction to other Lean tools.

METC 490A. SENIOR CAPSTONE: DESIGN LABORATORY I. 2 Credits.
Pre-requisites: MENG 217, MATH 162, METC 341 (may be taken concurrently), TECH 301 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course simulates the industrial environment, where students work in teams to solve a real world problem from design to implementation. Team dynamics and project constraints are strictly monitored and each student’s unique skills are utilized in different stages of the design process.

METC 490B. SENIOR CAPSTONE: DESIGN LABORATORY II. 3 Credits.
Pre-requisites: METC 490A.
Satisfies: senior capstone university graduation requirement.
See description for METC 490A.

METC 491. SENIOR PROJECT. 3-10 Credits.
Pre-requisites: permission of the instructor.
Independent and/or group study and implementation of a design and development project. (variable time)

METC 495. INTERNSHIP. 1-15 Credits.
Notes: graded Pass/Fail.
Pre-requisites: junior or senior status and permission of the instructor, department chair and dean.
A maximum of 5 credits may be earned toward electives for a Technology major. Students considering electives for a Technology minor should consult with their departmental advisor.

METC 499. DIRECTED STUDY. 1-5 Credits.

Military Science (MLSC)

MLSC 101. BASIC MILITARY SKILLS I. 1 Credit.
Pre-requisites: permission of the department chair.
MLSC 101 introduces students to the personal challenges and competencies that are critical for effective military leadership. Students learn how the personal development of life skills such as time management, physical fitness, and stress management relate to leadership, Officership, and Army operations. Focus is placed on developing basic knowledge and comprehension of Army Leadership Dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MLSC 102. BASIC MILITARY SKILLS II. 1 Credit.
Pre-requisites: permission of the department chair.
MLSC 102 presents an overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback and using effective writing skills. Students explore dimensions of leadership values, attributes, and competencies in the context of practical, hands-on, and interactive exercises. Cadre role models and the building of stronger relationships among the students through common experience and practical interaction are critical aspects of the MLSC 102 experience.

MLSC 103. BASIC MILITARY SKILLS III. 1 Credit.
Pre-requisites: permission of the department chair.
This course builds on the fundamentals developed in MLSC 101 and MLSC 102. It focuses on learning problem solving and decision making processes. Students continue to be placed in various small group leadership situations that demand decisions to ethical and moral problems. Cadre role models and the building of stronger relationships among the students through common experience and practical interaction are critical aspects of the MLSC 103 experience.
MLSC 104. BASIC MILITARY SKILLS LAB. 1 Credit.
Notes: this course is repeatable.
Pre-requisites: MLSC 101 or MLSC 102 or MLSC 103 concurrently.
This lab is focused on basic military skills such as land navigation, first aid, the Army Warrior Task Training tasks (CTT), weapons marksmanship as well as the development of leadership, stressing the practical application of leadership principles, techniques, styles and responsibilities. Students also participate as a member of a team or as a leader of the team given responsibility for accomplishment of given tasks. MS I students operate as members of a team.

MLSC 196. EXPERIMENTAL COURSE. 1-5 Credits.

MLSC 201. BASIC MILITARY TEAM BUILDING I. 2 Credits.
Pre-requisites: permission of the department chair.
MLSC 201 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework (trait and behavior theories). Students practice aspects of personal motivation and team building in the context of planning, executing and assessing team exercises. Focus is on continued development of the knowledge of leadership attributes and core leader competencies through an understanding of Army rank, structure, duties and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier’s Creed and Warrior Ethos as they apply in the contemporary operating environment (COE).

MLSC 202. BASIC MILITARY TEAMBUILDING II. 2 Credits.
Pre-requisites: permission of the department chair.
MLSC 202 examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). The course highlights dimensions of terrain analysis, patrolling and operations orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations in a constantly changing world and applies these challenges to practical Army leadership tasks and situations.

MLSC 203. BASIC MILITARY TEAM III. 2 Credits.
Pre-requisites: permission of the department chair.
MLSC 203 provides a horizontal transition into MLSC 301. Students develop greater self awareness as they assess their own leadership styles and practice communication and team-building skills. COE case studies provide insight into the importance and practice of teamwork and tactics in real-world scenarios.

MLSC 204. BASIC MILITARY TEAM BUILDING LAB. 1 Credit.
Notes: this course is repeatable.
Pre-requisites: MLSC 201 or MLSC 202 or MLSC 203 concurrently.
This lab is focused on basic military skills such as land navigation, first aid, the Army Warrior Task Training tasks (CTT), weapons marksmanship as well as the development of leadership, stressing the practical application of leadership principles, techniques, styles and responsibilities. Students also participate as a member of a team or as a leader of the team given responsibility for accomplishment of given tasks. MS II students are being prepared to be evaluated as leaders and share in leadership roles.

MLSC 296. EXPERIMENTAL COURSE. 1-5 Credits.

MLSC 299. INDIVIDUAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Topics are mutually agreed upon by students and the instructor

MLSC 301. MILITARY SCIENCE AND TACTICS I. 2 Credits.
Pre-requisites: permission of the department chair.
MLSC 301 challenges students to study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. Each student, by the end of the course, will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical in a field environment. In addition, MS III students rotate through a variety of leadership positions that support ROTC battalion training and recruiting events. The MS III student receives detailed and constructive feedback on their leader attributes and core leader competencies.

MLSC 302. MILITARY SCIENCE AND TACTICS II. 2 Credits.
Pre-requisites: MLSC 301.
MLSC 302 challenges students to continue in the study, practice, and application of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. Each student will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical in a field environment. MS III students rotate through a variety of leadership positions that support ROTC battalion training and recruiting events throughout the quarter. The MS III students receive detailed and constructive feedback on their leader attributes and core leader competencies.

MLSC 303. MILITARY SCIENCE AND TACTICS III. 2 Credits.
Pre-requisites: MLSC 302.
MLSC 303 is the final review of advanced land navigation techniques, communication and small unit tactics in preparation for the thirty day summer Leadership Development and Assessment Course Camp (LDAC) (MLSC 307) at Fort Lewis, Washington. MS III students rotate through a variety of leadership positions that support ROTC battalion training and recruiting events. The MS III student receives detailed and constructive feedback on their leader attributes and core leader competencies.

MLSC 304. MILITARY SCIENCE AND TACTICS LAB. 2 Credits.
Notes: this course is repeatable.
Pre-requisites: completion of ROTC Basic Course (MLSC 100 and 200 series) or department chair approval required.
An advanced training exercise in the development of leadership, that stresses the practical application of leadership principles, techniques, styles and responsibilities, focusing on planning, resourcing and execution. Students are responsible for the evaluation, counseling and mentoring of 10 to 30 subordinates and team members.

MLSC 307. LEADERSHIP DEVELOPMENT AND ASSESSMENT. 8 Credits.
Pre-requisites: permission of the department chair.
The summer following their junior year, cadets attend the Leadership Development and Assessment Course (LDAC), a five-week Course at Ft. Lewis, WA. It is designed to evaluate a cadet’s leadership abilities while providing additional leadership and individual skills instruction.

MLSC 396. EXPERIMENTAL COURSE. 1-5 Credits.

MLSC 399. INDIVIDUAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Topics are mutually agreed on by the student and the instructor
**MLSC 401. MILITARY SCIENCE AND OFFICERSHIP I. 2 Credits.**
The MLSC 401 course transitions the focus of student learning from being trained, mentored and evaluated as an MS III Cadet to learning how to train, mentor and evaluate underclass Cadets. MS IV Cadets will learn the duties and responsibilities of an Army staff officer and apply the Military Decision Making Process (MDMP), Army writing style and the Army’s principles of training and training management cycle during weekly training meetings to plan, execute and assess battalion training events. Cadets will learn about the special trust proposed by the U.S. Constitution to Army Officers; a trust above and beyond other professions. Cadets will learn Army values and ethics and how to apply them to everyday life as well as in the Contemporary Operating Environment. The MS IV Cadet will learn about the officer’s role in the Uniform Code of Military Justice, counseling subordinates, administrative actions and methods on how to best manage their career as an Army Officer.

**MLSC 402. MILITARY SCIENCE AND OFFICERSHIP II. 2 Credits.**
**Pre-requisites:** MLSC 401.
This course continues MLSC 401 instruction on how to train, mentor and evaluate subordinates. MS IV Cadets function as a Cadet staff officer and apply the Military Decision Making Process (MDMP), Army writing style and the Army’s principles of training and training management cycle during weekly training meetings to plan, execute and assess battalion training events.

**MLSC 403. MILITARY SCIENCE AND OFFICERSHIP III. 2 Credits.**
**Pre-requisites:** MLSC 402.
This is the final course a Cadet takes prior to commissioning and graduating. MS IV Cadets complete their last quarter as a Cadet staff officer and apply the Military Decision Making Process (MDMP), Army writing style and the Army’s principles of training and training management cycle during weekly meetings. Cadets apply the special trust as they transition to Army Officers. Cadets live Army values and ethics and apply them to everyday life. The MS IV Cadet continues to learn about the officer’s role in the Uniform Code of Military Justice, counseling subordinates, administrative actions and methods on how to best manage their career as an Army Officer.

**MLSC 404. MILITARY SCIENCE AND TACTICS IV LAB. 2 Credits.**
**Notes:** this course is repeatable.
**Pre-requisites:** permission of the department chair.
This course is an advanced training exercise in the development of leadership, stressing the practical application of leadership principles, techniques, styles and responsibilities. It focuses on leadership planning, resourcing and execution. MS IV Cadets plan and execute training exercises for the Basic Course Cadets and assist the cadre in the execution and evaluation of the MS III students.

**MLSC 490. MILITARY LEADERSHIP SENIOR CAPSTONE. 5 Credits.**
**Pre-requisites:** MLSC 307 and senior standing; or permission of instructor.
**Satisfies:** senior capstone university graduation requirement.
This course is a senior-level seminar designed to integrate and further refine the analytical, writing, and presentation skills acquired as a Military Science major and Army Officer. The course covers case studies and analyses of actual leadership examples from past and present military exercises and engagements. Students prepare and present an original, extensive case study and analysis of military leadership, if possible relating to the student’s actual assignment in the Active or Reserve Component of the Armed Forces.

**MLSC 495. PROFESSIONAL INTERNSHIP. 1-5 Credits.**
**Pre-requisites:** permission of the instructor, department chair and college dean.
Provides practical military experience through participation in a work experience program. Requires a detailed written report. The program is mutually agreed upon by students and instructor.

**MLSC 496. EXPERIMENTAL COURSE. 1-5 Credits.**

**MLSC 499. INDEPENDENT STUDY. 1-5 Credits.**
**Pre-requisites:** permission of the instructor, department chair and college dean.
Topics are mutually agreed on by students and the instructor

**Music (MUSC)**

**MUSC 100. INTRODUCTION TO PIANO AND MUSIC THEORY. 3 Credits.**
This course includes basic musical skills, including notation, scales, intervals and keyboard experience.

**MUSC 101. MUSIC THEORY I. 3 Credits.**
**Pre-requisites:** concurrent enrollment in MUSC 104; music minors and non-music majors/minors require permission of the department chair.
This course involves study of basic theory devoted to notation, scales, intervals, keys and elementary harmony.

**MUSC 102. MUSIC THEORY II. 3 Credits.**
**Pre-requisites:** MUSC 101; concurrent enrollment in MUSC 105 is required; music minors and non-music majors/minors require permission of the department chair.
This course is the study of harmonic practice and part writing. It involves treatment of major and minor seventh chords and melodic construction.

**MUSC 103. MUSIC THEORY III. 3 Credits.**
**Pre-requisites:** MUSC 102; concurrent enrollment in MUSC 106 is required; music minors and non-music majors/minors require permission of the department chair.
This course emphasizes analysis, modulation, non-dominant and secondary dominant seventh chords as used in American popular song and American jazz forms.

**MUSC 104. SIGHT SINGING AND AURAL SKILLS. 1 Credit.**
**Pre-requisites:** concurrent enrollment in MUSC 101; music minors and non-music majors/minors require permission of the department chair.
This course involves singing of materials emphasizing stepwise melodic motion and triadic motion and the study of basic rhythms. Ear training will help students identify intervals and scale forms.

**MUSC 105. SIGHT SINGING AND AURAL SKILLS II. 1 Credit.**
**Pre-requisites:** MUSC 104; concurrent enrollment in MUSC 102; music minors and non-music majors/minors require permission of the department chair.
This course introduces C clefs, compound meter and advanced rhythms. Dictation includes error detection as well as melodic dictation.

**MUSC 106. SIGHT SINGING AND AURAL SKILLS III. 1 Credit.**
**Pre-requisites:** MUSC 105; concurrent enrollment in MUSC 103; music minors and non-music majors/minors require permission of the department chair.
This course consists of modulation exercises and introduction of sequentials. Error detection and harmonic dictation will be emphasized.
MUSC 108. INSTRUCTION ON INSTRUMENT OR VOICE. 1 Credit.
Notes: may be repeated; this course is intended for all freshman except those majoring in Music Performance.
Pre-requisites: permission of instructor.
This course is designed to provide students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a musical, linguistic and performance viewpoint. Students without previous credit in applied music must audition to be accepted into applied study. Every student who is registered for applied music must be registered for a major ensemble.

MUSC 110. CONVOCATION AND RECITAL ATTENDANCE. 0 Credits.
Notes: may be repeated.
This course is comprised of attending all weekly convocations, as well as department recitals and selected non-EWU performances for a total number of 15 per quarter. Course must be passed 11 quarters for music majors. The required number for transfer students will be determined on an individual basis.

MUSC 117. PIANO CLASS I BEGIN-NON-MAJORS. 1 Credit.
Notes: these classes are for non-music majors only.
These classes will consist of basic theory, simple harmonization, improvisation, sight-reading, chord recognition and fundamental jazz/blues.

MUSC 118. PIANO CLASS II BEGIN-NONMAJORS. 1 Credit.
Pre-requisites: MUSC 117.
These classes will consist of basic theory, simple harmonization, improvisation, sight-reading, chord recognition and fundamental jazz/blues.

MUSC 119. PIANO III BEGIN/NON-MAJORS. 1 Credit.
Notes: these classes are for non-music majors only.
Pre-requisites: MUSC 118.
These classes will consist of basic theory, simple harmonization, improvisation, sight-reading, chord recognition and fundamental jazz/blues.

MUSC 120. PIANO CLASS I FOR MAJORS. 1 Credit.
Notes: These classes are for music majors only.
These classes will consist of: harmonization, improvisation, score-reading, sight-reading, repertoire, accompanying skills, technique, scales and chords.

MUSC 121. PIANO CLASS II FOR MAJORS. 1 Credit.
Notes: these classes are for music majors only.
Pre-requisites: MUSC 120.
These classes will consist of: harmonization, improvisation, score-reading, sight-reading, repertoire, accompanying skills, technique, scales and chords.

MUSC 122. PIANO CLASS III FOR MAJORS. 1 Credit.
Notes: these classes are for music majors only.
Pre-requisites: MUSC 121.
These classes will consist of: harmonization, improvisation, score-reading, sight-reading, repertoire, accompanying skills, technique, scales and chords.

MUSC 126. HONORS KEYBOARD. 1 Credit.
Notes: may be repeated.
Accelerated offering of the material covered in MUSC 120. Covers all components of the Piano Proficiency Exam.

MUSC 130. VOICE CLASS. 1 Credit.
Notes: may be repeated until the student reaches the proficiency level necessary for advanced instruction.
This course provides instruction in vocal performance. All students without previous credit in applied vocal music at the university level should register for this course.

MUSC 140. APPLIED INSTRUCTION ON INSTRUMENT OR VOICE. 2 Credits.
Notes: may be repeated; concurrent enrollment in a major ensemble is required.
Pre-requisites: permission of instructor.
Only declared freshmen music performance majors should register for this number. Students registered for courses with multiple sections (piano, instrument and voice) should contact the instructor prior to pre-registration for correct assignments.

MUSC 201. MUSIC THEORY IV. 3 Credits.
Pre-requisites: MUSC 103; concurrent enrollment in MUSC 204; music minors and non-music majors/minors require permission of the department chair.
This course emphasizes contrapuntal techniques, variation techniques and study of chromatic and color harmonies.

MUSC 202. MUSIC THEORY V. 3 Credits.
Pre-requisites: MUSC 201; concurrent enrollment in 205; Piano Proficiency Exam clearance.
This is the study of advanced harmonic practice including altered dominants and chromatic mediants. It will also include study of large forms emphasizing various forms of rondo.

MUSC 203. MUSIC THEORY VI. 3 Credits.
Pre-requisites: MUSC 202.
This course acquaints students with late 19th and 20th century compositional and formal techniques and devices.

MUSC 204. SIGHT SINGING AND AURAL SKILLS IV. 1 Credit.
Pre-requisites: MUSC 106; concurrent enrollment in MUSC 201.
This course emphasizes rhythmic and melodic complexity including chromaticism, modulation and dictation of comparable material.

MUSC 205. SIGHT SINGING AND AURAL SKILLS V. 1 Credit.
Pre-requisites: MUSC 204; concurrent enrollment in MUSC 202; Piano Proficiency Exam clearance.
This course emphasizes unusual modulation, scales and time signatures.

MUSC 208. INSTRUCTION ON VOICE OR INSTRUMENT. 1 Credit.
Notes: may be repeated; this course is intended for all sophomores except those majoring in Music Performance.
This course is designed to provide students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a musical, linguistic and performance viewpoint. Students without previous credit in applied music must audition to be accepted into applied study. Every student who is registered for applied music must be registered for a major ensemble.

MUSC 209. COMPOSITIONAL TECHNIQUES. 2 Credits.
Notes: may be repeated.
Pre-requisites: MUSC 204; Piano Proficiency Exam clearance.
This course is the practical study of the techniques and devices of composition in the various primary forms.
MUSC 212. MUSIC IN THE HUMANITIES. 5 Credits.
Cross listed: HUMN 212.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
This course is a survey with primary focus on Western classical music in terms of humanistic development with emphasis on musical style and structure and relations with the other arts.

MUSC 213. ROCK AND ROLL AND BEYOND. 5 Credits.
MUSC 213 investigates the musical and cultural melting pot of American popular music from the early 20th Century to the present. Significant portions of the class will deal with the important artists and songs of popular music's evolution.

MUSC 230. GUITAR AND MUSIC FUNDAMENTALS. 3 Credits.
Fundamentals of music, including notation, scales, key signatures, chords, intervals, experience with use of guitar.

MUSC 240. APPLIED INSTRUCTION ON INSTRUMENT OR VOICE. 2 Credits.
Notes: may be repeated; only declared sophomore music performance majors should register for this course; students registered for courses with multiple sections (piano, instrument and voice) should contact the instructor prior to registration for correct assignments; concurrent enrollment in a major ensemble is required.
This course is designed to provide students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a musical, linguistic and performance viewpoint.

MUSC 244. MUSIC TECHNOLOGY. 2 Credits.
Pre-requisites: Computer Literacy II clearance, Piano Proficiency Exam clearance.
This course is a practical study of music technology for performers and educators. Topics include the study of music notation/accompaniment software, recording programs, MIDI applications, and sound reinforcement.

MUSC 250. MUSIC HISTORY AND LITERATURE I. 3 Credits.
Pre-requisites: MUSC 103.
Detailed study and analysis of music in Western civilization from its origin to modern times. The fall quarter covers antiquity through the Renaissance.

MUSC 251. MUSIC HISTORY AND LITERATURE II. 3 Credits.
Pre-requisites: MUSC 103, MUSC 250.
Detailed study and analysis of music in Western civilization from the origin to modern times. Music 251 includes the Baroque and Classical periods.

MUSC 252. MUSIC HISTORY AND LITERATURE III. 3 Credits.
Pre-requisites: MUSC 103, MUSC 251.
A detailed study and analysis of the music in Western Civilization from 1800 to the present.

MUSC 280. BASIC JAZZ ARRANGING. 1 Credit.
Pre-requisites: MUSC 108 and MUSC 277.
This course provides fundamental arranging techniques including basic instrumental ranges through pedagogical rhythm section skills. Topics include developing introductions, endings, form, basic ranges of instruments, creating bass lines, piano voicings, guitar voicings and drum set nomenclature.

MUSC 281. ADVANCED JAZZ ARRANGING. 1 Credit.
Pre-requisites: MUSC 280.
This course covers arranging techniques for compositions and arrangements for the jazz idiom. Skills include: voicings for sections; harmonic development; compositional development; and music notation programs. Students will develop a 8-10 piece composition/arrangement as a final project.

MUSC 286. INTRODUCTION TO JAZZ THEORY AND AURAL SKILLS. 1 Credit.
Pre-requisites: MUSC 103.
Students are introduced to musical concepts relating to the jazz idiom such as scales, harmonies and styles. They acquire basic jazz piano and aural skills.

MUSC 287. BASIC JAZZ THEORY/IMPROVISATION. 1 Credit.
Pre-requisites: MUSC 103.
This course introduces various aspects of basic improvisational tools and skills, combining theory with playing and piano skills.

MUSC 288. INTERMEDIATE JAZZ THEORY/IMPROVISATION. 1 Credit.
Pre-requisites: MUSC 287.
This course provides a firm grounding in the fundamental concepts of jazz theory, including mode and chord construction. It includes basic forms such as AABA, Rhythm Changes and Blues.

MUSC 289. ADVANCED JAZZ THEORY/IMPROVISATION. 1 Credit.
Pre-requisites: MUSC 288.
This course helps students gain mastery over the melodic minor concept of improvisation. Students will learn the modes of melodic minor and how the modes relate to modal and functional harmony. Students will also learn to manipulate various patterns based on the melodic minor modes.

MUSC 296. EXPERIMENTAL COURSE. 1-5 Credits.

MUSC 299. SPECIAL STUDIES. 1-5 Credits.

MUSC 305. COUNTERPOINT. 2 Credits.
Pre-requisites: MUSC 101, MUSC 102, MUSC 104.
Study and application of contrapuntal techniques in two and three voices.

MUSC 308. INSTRUCTION ON VOICE OR INSTRUMENT. 1 Credit.
Notes: may be repeated; students without previous credit in applied music must audition to be accepted into applied study; every student who is registered for applied music must be registered for a major ensemble; this course is intended for all juniors except those majoring in Music Performance.
This course provides students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a musical, linguistic and performance viewpoint.

MUSC 310. BASIC CONDUCTING SKILLS. 2 Credits.
Pre-requisites: MUSC 103.
This course is the study of fundamental conducting techniques including score study and rehearsal techniques.

MUSC 312. ADVANCED CONDUCTING SKILLS. 2 Credits.
Pre-requisites: MUSC 310.
Students in this course learn to apply conducting and rehearsal techniques to choral and performance groups.
MUSC 320. DICTION FOR SINGERS I. 1 Credit.
Introduction to diction for singers, choral conductors and collaborative pianists. The class introduces International Phonetic Alphabet (IPA) and its practical application to English, Ecclesiastical Latin, Italian, German and French through both in-class practice and dictionary reference. This course is designed to provide introductory information and develop knowledge of basic IPA symbols, their pronunciation and the implementation of this learning into vocal/choral repertoire.

MUSC 321. DICTION FOR SINGERS II. 1 Credit.
Pre-requisites: MUSC 320 or permission of instructor.
Continuation of diction for singers, choral conductors and collaborative pianists. This class continues work with International Phonetic Alphabet (IPA) and its practical application to Italian and German through in-class pronunciation practice and extensive IPA transcription of Italian and German vocal and choral music texts.

MUSC 322. DICTION FOR SINGERS III. 1 Credit.
Pre-requisites: MUSC 321 or permission of instructor.
Continuation of diction for singers, choral conductors and collaborative pianists. This class continues work with International Phonetic Alphabet (IPA) and its practical application to French and English (British and American) through in-class pronunciation practice and extensive IPA transcription of French and English vocal and choral music texts.

MUSC 337. CONTEMPORARY MUSIC ENSEMBLE. 3 Credits.
Notes: may be repeated.
This ensemble provides students the opportunity to explore music of the 20th and 21st Centuries. Music will be chosen from the standard repertoire of the 20th century as well as music of the avant-garde and recent music. Faculty occasionally join students in ensembles.

MUSC 338. ORCHEST REPETTOIRE FOR STRING. 1 Credit.
Notes: may be repeated.
Pre-requisites: MUSC 203.
An intensive study of the standard orchestra repertoire. Students will use score analysis and use of recordings to aid in their preparation.

MUSC 340. APPLIED INSTRUCTION ON INSTRUMENT OR VOICE. 2 Credits.
Notes: may be repeated; concurrent enrollment in a major ensemble is required; only declared junior music performance majors should register for this course; students registered for courses with multiple sections (piano, instrument and voice) should contact the instructor prior to registration for correct assignments.
This course provides students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a music, linguistic and performance viewpoint.

MUSC 341. ADVANCED FUNCTIONAL KEYBOARD. 2 Credits.
Pre-requisites: junior or senior standing.
This course is an advanced study of the techniques of harmonization, transposition, score reading, sight reading and improvisation.

MUSC 356. HISTORY OF JAZZ. 3 Credits.
This course investigates the cultural, historical and musical elements of jazz from its development into the 21st century.

MUSC 357. MUSIC IN DIVERSE CULTURES. 3 Credits.
Pre-requisites: MUSC 102.
This course examines music across the globe, including non-Western music and Jazz.

MUSC 382. STRINGED INSTRUMENT TECHNIQUES. 1 Credit.
Notes: may be repeated once for a total of 2 credits; music minors and non-music majors/minors require permission of the department chair.
The students will receive elementary and pedagogical instruction for stringed instruments. Instruction will include materials and techniques for music education majors.

MUSC 383. WOODWIND INSTRUMENT TECHNIQUES. 1 Credit.
Notes: may be repeated twice for a total of 3 credits; music minors and non-music majors/minors require permission of the department chair.
The students will receive elementary and pedagogical instruction for woodwind instruments. Instruction will include materials and techniques for music education majors.

MUSC 384. BRASS INSTRUMENT TECHNIQUES. 1 Credit.
The students will receive elementary and pedagogical instruction for brass instruments. Instruction will include materials and techniques for music education majors. Music minors and non-music majors/minors require permission of the department chair.

MUSC 385. PERCUSSION INSTRUMENT TECHNIQUES. 1 Credit.
The students will receive elementary and pedagogical instruction for percussion instruments. Instruction will include materials and techniques for music education majors. Music minors and non-music majors/minors require permission of the department chair.

MUSC 386. SOUND SPACES. 3 Credits.
Cross listed: CSCD 386.
Notes: this course may be repeated.
Pre-requisites: DESN 385.
CSCD 386/MUSC 386 is a project-oriented course for designing, building, composing and performing with new instruments. Students will be encouraged to collaborate in the learning process and share their knowledge and experiences. The course is interdisciplinary in nature. Ideally the class would consist of students with backgrounds in music, programming and engineering.

MUSC 387. THE PIANO BEYOND THE KEYBOARD: A TECHNICIAN’S GUIDE FOR THE PIANIST. 3 Credits.
This practical and interactive course, designed for pianists and piano teachers, probes the vital relationship between pianist and technician while exploring pianos from a technical perspective. Students take many “field trips” inside pianos to see how their human energy is transformed into musical expression.

MUSC 396. EXPERIMENTAL COURSE. 1-5 Credits.
MUSC 399. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects studied vary according to faculty and student interest.

MUSC 401. ADVANCED ANALYSIS. 2 Credits.
Notes: may be repeated for credit.
Pre-requisites: MUSC 203.
It is an exploration of analytical techniques for many styles of music.

MUSC 404. BAND ARRANGING. 3 Credits.
Pre-requisites: MUSC 204.
Instruments of the band with practical application to the art of band scoring. Original work and transcriptions.

MUSC 405. ORCHESTRATION. 3 Credits.
Pre-requisites: MUSC 204.
Practical study of the art of symphonic scoring. Original work and transcriptions.
MUSC 408. INSTRUCTION ON INSTRUMENT OR VOICE. 1 Credit.
Notes: may be repeated.
This course provides students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a musical, linguistic and performance viewpoint. Students without previous credit in applied music must audition to be accepted into applied study. Every student who is registered for applied music must be registered for a major ensemble. This course is intended for all seniors except those majoring in Music Performance.

MUSC 409. COMPOSITION. 1-5 Credits.
Notes: may be repeated.
Pre-requisites: MUSC 209.
Students learn to organize musical ideas into logical forms and apply the skills learned to musical works using a broad variety of media.

MUSC 440. APPLIED INSTRUCTION ON INSTRUMENT OR VOICE. 2 Credits.
Notes: may be repeated; concurrent enrollment in a major ensemble is required; only declared senior music performance majors should register for this course; students registered for courses with multiple sections (piano, instrument and voice) should contact the instructor prior to registration for correct assignments.
This course provides students with basic to advanced vocal or instrumental skills and a knowledge of the assigned repertoire from a music, linguistic and performance viewpoint.

MUSC 441. MUS METH FOR ELEM MUS SPCLST. 3 Credits.
Pre-requisites: junior standing, PSYC 304.
Methods and materials for teaching a complete music program in the first six grades.

MUSC 445. CHORAL METH/MAT SEC SCHOOL. 2 Credits.
Pre-requisites: MUSC 130, MUSC 310.
The course helps students develop a sequential choral program in the secondary schools.

MUSC 446. INSTRUMENTAL METHODS/MATERIALS. 2 Credits.
Pre-requisites: MUSC 310.
This course is designed to impart the skills and knowledge to design and direct instructional experience for bands and orchestra in the secondary schools.

MUSC 447. JAZZ ENSEMBLE METHODS/MATERIAL. 2 Credits.
Pre-requisites: MUSC 203.
This course helps music education majors develop skills in the jazz idiom. It includes techniques and materials for basic jazz piano, improvisation and ensemble direction.

MUSC 450. INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES. 3 Credits.
Pre-requisites: EDUC 303.
Development of critical understanding and skills in supporting elementary classroom learning through curricular integration of music.

MUSC 451. MUSIC OF THE MEDIEVAL ERA. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the Medieval Era. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 452. MUSIC OF THE RENAISSANCE ERA. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the Renaissance Era. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 453. MUSIC OF THE BAROQUE ERA. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the Baroque Era. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 454. MUSIC OF THE CLASSICAL ERA. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the Classical Era. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 455. MUSIC OF THE ROMANTIC ERA. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the Romantic Era. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 456. MUSIC OF THE 20TH CENTURY. 3 Credits.
Pre-requisites: MUSC 203 and MUSC 252.
This course offers intensive study of the music literature of the 20th century. This study may be either a survey or focus on a selected topic(s) of the era.

MUSC 458. PIANO PEDAGOGY I. 2 Credits.
Pre-requisites: junior or senior standing.
Methods and materials for teaching all levels of piano in the private studio and group class setting.

MUSC 459. PIANO PEDAGOGY II. 2 Credits.
Pre-requisites: junior or senior standing or MUSC 458.
Methods and materials for teaching all levels of piano in the private studio and group class setting.

MUSC 460. PIANO PEDAGOGY III. 2 Credits.
Pre-requisites: junior or senior standing, MUSC 459.
Methods and materials for teaching all levels of piano in the private studio and group class setting.

MUSC 461. VOCAL PEDAGOGY. 3 Credits.
Pre-requisites: senior standing.
Preparation for teaching individual and class voice in the studio.

MUSC 462. STRING PEDAGOGY. 3 Credits.
Pre-requisites: senior standing.
Preparation for teaching individual or class lessons in string instruments.

MUSC 463. WOODWIND PEDAGOGY. 3 Credits.
Pre-requisites: senior standing.
Preparation for teaching individual or class lessons in woodwind instruments.

MUSC 464. BRASS PEDAGOGY. 3 Credits.
Pre-requisites: senior standing.
Preparation for teaching individual or class lessons in brass instruments.

MUSC 467. ACCOMPANYING. 3 Credits.
Notes: may be repeated.
Vocal and instrumental literature, analyzing accompanist’s problems.

MUSC 468. PERCUSSION PEDAGOGY. 3 Credits.
Pre-requisites: senior standing and permission of the instructor.
Preparation for teaching individual and class percussion in the studio.
MUSC 470. SENIOR RECITAL. 1-5 Credits.

MUSC 472. VOCAL ACCOMPANYING. 2 Credits.
Pre-requisites: MUSC 467.
Focus is exclusively on the art of vocal/keyboard collaboration, and is open to pianists and vocalists. Students explore and project different styles and sound qualities required for the artistic performance of diverse chamber ensemble repertoire. Students are engaged in intensive listening, coaching, writing, rehearsing and performing.

MUSC 473. INSTRUMENTAL ACCOMPANYING. 2 Credits.
Pre-requisites: MUSC 467.
Focus is exclusively on the art of instrumental/keyboard collaboration and is open to both pianists and instrumentalists. Students explore and project different styles and sound qualities required for the artistic performance of diverse chamber ensemble repertoire. Students are engaged in intensive listening, coaching, writing, rehearsal and performance.

MUSC 480. KEYBOARD LITERATURE I. 2 Credits.
Pre-requisites: junior or senior standing.
A study of keyboard literature from pre-Baroque through Classical Periods.

MUSC 481. KEYBOARD LITERATURE II. 2 Credits.
Pre-requisites: junior or senior standing or MUSC 480.
A study of keyboard literature from late Classical through the Romantic Period.

MUSC 482. KEYBOARD LITERATURE III. 2 Credits.
Pre-requisites: junior or senior standing or MUSC 481.
A study of keyboard literature from the late Romantic Period through the 20th century.

MUSC 485. THE HEART OF PERFORMANCE. 1 Credit.
Pre-requisites: junior, senior, or graduate students only.
An interactive course that explores philosophical and practical issues in establishing and maintaining a professional performing career.

MUSC 490. SENIOR CAPSTONE. 4 Credits.
Pre-requisites: MUSC 488.
Satisfies: senior capstone university graduation requirement.
This course will provide project-oriented learning experiences for seniors in preparation for professional working environments (e.g. software development for musical training). Emphasis will be placed on the development of: 1) creative thinking and design skills, 2) independent initiative to achieve goals and 3) collaborative skills for working in teams.

MUSC 491. MUSIC SENIOR THESIS. 4 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
Students apply their intellectual and research skills to a relevant music project. This thesis project serves as a basis for their professional careers as they enter the fields of performing arts, music education, composition or music scholarship.

MUSC 493. MUSIC OUTREACH. 1-3 Credits.
Students perform 30 hours of work preparing, delivering and reporting on music classroom/field based outreach experiences in cooperation with a course instructor.

MUSC 495. INTERNSHIP. 1-10 Credits.

MUSC 496. EXPERIMENTAL COURSE. 1-5 Credits.

MUSC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MUSC 498. SEMINAR. 1-5 Credits.

MUSC 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual study projects in selected special field of music.

MUSC 510. ADVANCED CONDUCTING. 3 Credits.
Notes: may be repeated for a maximum of 9 credits.
Instrumental and choral scores with extensive application of conducting techniques to these forms.

MUSC 520. RESEARCH TECHNIQUES AND BIBLIOGRAPHY IN MUSIC. 3 Credits.
Basic references, bibliographic aids and research techniques.

MUSC 521. RESEARCH DESIGN IN MUSIC EDUCATION . 3 Credits.
Interpreting, reviewing and designing various types of music education research and writing research proposals and reports.

MUSC 529. APPLIED LESSON. 1 Credit.
Notes: may be repeated each quarter.
Participation in an instrumental ensemble.

MUSC 530. INSTRUCTION ON INSTRUMENTS OR VOICE. 2 Credits.

MUSC 531. ALTERNATIVE APPROACHES TO MUSIC EDUCATION. 3 Credits.
Notes: no longer a 1 credit class, repeated up to 3 times, instead, it will be a 3 credit class.
Examining diverse philosophical, curricular and administrative components of community-based music education, spanning life-long learning in increasingly varied settings.

MUSC 532. PEDAGOGY OF COLLEGIATE TEACHING . 3 Credits.
Notes: no longer a 1 credit class, repeated up to 3 times, instead, it will be a 3 credit class.
A preparation for teaching in the modern university environment, examining the role of the professor, and focusing on the development of innovative teaching skills appropriate to the college setting.

MUSC 537. CONTEMPORARY MUSIC ENSEMBLE. 3 Credits.
Notes: may be repeated each quarter.
This ensemble allows students the opportunity to investigate through performing the music and the stylistic performance practices of music of the 20th century.

MUSC 538. TOPICS IN MUSIC HISTORICAL. 3 Credits.
This course will address topics in music history, which will vary from year to year. Topics will include (but are not limited to) the music of specific nationalities, genres or composers; the history of musical instruments; music in drama; historical performance practice; and other subjects related to music history that are not covered in other music history courses offered by our department.

MUSC 546. SOCIOLOGICAL FOUNDATIONS OF MUSIC. 3 Credits.
Study of the interdependent relationship between society, music and music education.

MUSC 547. THE PSYCHOLOGY OF MUSIC LEARNING AND TEACHING. 3 Credits.
Exploration of research and theory in the process of learning and teaching music, impacting effective functioning as music performers and teachers.
MUSC 550. PHILOSOPHICAL FOUNDATIONS IN MUSIC EDUCATION. 5 Credits.
Exploration of philosophical thinking in the field of music education, with emphasis on philosophical foundations for music learning and teaching.

MUSC 551. MUSIC OF THE MEDIEVAL ERA. 3 Credits.

MUSC 552. MUSIC OF THE RENAISSANCE ERA. 3 Credits.

MUSC 553. MUSIC OF THE BAROQUE PERIOD. 3 Credits.
Intensive study of the music literature of the Baroque Period with emphasis on library research. An extensive research paper is required.

MUSC 554. MUSIC OF THE CLASSICAL PERIOD. 3 Credits.
Intensive study of the music literature of the Classical Period with emphasis on library research. An extensive research paper is required.

MUSC 555. MUSIC OF THE ROMANTIC PERIOD. 3 Credits.
Intensive study of the music literature of the Romantic Period with emphasis on library research. An extensive research paper is required.

MUSC 556. MUSIC OF THE 20TH CENTURY. 3 Credits.
Intensive study of the music literature of the 20th Century with emphasis on library research. An extensive research paper is required.

MUSC 557. JAZZ STYLES AND ANALYSIS. 3 Credits.
This class is for the jazz pedagogy major to learn and become familiar with various artists through transcription, biographical information pertaining to a specific instrument.

MUSC 558. HISTORY OF JAZZ. 3 Credits.
Pre-requisites: permission of the instructor.
This class is for the graduate student to learn and become familiar with various aspects of the history of jazz by preparing and developing a twenty-class sequence covering historical, musical and social elements.

MUSC 560. HISTORICAL ANALYSIS OF MUSICAL STRUCTURE. 3 Credits.
Structural analysis of music from the 16th century to the present and the relationship of this analysis to effective interpretation, performance and teaching.

MUSC 561. COUNTERPOINT. 2 Credits.
This course explores the contrapuntal rules and recommendations that guide music composition in tonal contexts.

MUSC 562. TOPICS IN THEORY. 3 Credits.
Exploring a variety of topics in Music Theory through research and discovery of analytical methods.

MUSC 564A. PIANO PEDAGOGY I. 2 Credits.
Notes: This course will be stacked with MUSC 458.
Methods and materials for teaching all levels of piano in private studio and group settings.

MUSC 564B. PIANO PEDAGOGY II. 2 Credits.
Notes: This course will be stacked with MUSC 459.
Methods and materials for teaching all levels of piano in private studio and group settings.

MUSC 564C. PIANO PEDAGOGY III. 2 Credits.
Notes: This course will be stacked with MUSC 460.
Methods and materials for teaching all levels of piano in private studio and group settings.

MUSC 564D. PEDAGOGY VOCAL. 3 Credits.
Notes: This course will be stacked with MUSC 461.
Methods and materials for teaching all levels of voice instruction in private studio and group settings.

MUSC 564E. PEDAGOGY STRINGS. 3 Credits.
Notes: This course will be stacked with MUSC 462.
Methods and materials for teaching all levels of string instruction in private studio and group settings.

MUSC 564F. PEDAGOGY WOODWINDS. 3 Credits.
Notes: This course will be stacked with MUSC 463.
Methods and materials for teaching all levels of woodwind instruction in private studio and group settings.

MUSC 564G. PEDAGOGY BRASS. 3 Credits.
Notes: This course will be stacked with MUSC 464.
Methods and materials for teaching all levels of brass instruction in private studio and group settings.

MUSC 564H. PEDAGOGY PERCUSSION. 3 Credits.
Notes: This course will be stacked with MUSC 468.
Methods and materials for teaching all levels of percussion instruction in private studio and group settings.

MUSC 565. ADVANCED ORCHESTRATION. 3 Credits.
Advanced practical arranging, orchestration and composition for school and professional orchestras.

MUSC 568. ADVANCED COMPOSITIONAL TECHNIQUES. 1-5 Credits.
Notes: may be repeated.
Original work in composition in larger musical forms, with emphasis on different stylistic periods.

MUSC 569. TOPICS IN ADVANCED ARRANGING. 3 Credits.
Offers intensive study and analysis of a variety of arranging techniques in music theory. This course will cover skills needed to arrange music for instrumental and vocal ensembles such as: Band, Choir, Orchestra.

MUSC 571. JAZZ ENSEMBLE DIRECT/CONDUCT. 3 Credits.
This class is for the jazz pedagogy major to learn and become familiar with various aspects of their potential program. This class will deal extensively with budgets, scheduling, rehearsal techniques and literature.

MUSC 572. GRADUATE IMPROVISATION-PEDAGOGY. 3 Credits.
This class is for the jazz pedagogy student to learn and become familiar with various aspects of teaching improvisation in a classroom setting. Experiences working with high school and middle school students highlight the class work.

MUSC 573. GRADUATE IMPROVISATION-TTRANSCRIPTION. 3 Credits.
The purpose of this class is to study style and harmonic nuances through transcription of important artists in the history of jazz. Weekly assignments include transcriptions and theoretical study.

MUSC 574. GRADUATE JAZZ ARRANGING. 3 Credits.
The purpose of this class is to learn fundamental arranging techniques beginning with basic instrumental ranges through learning useful big band band voicings. The class will cover extensively examples of arrangements and proper compositional techniques for piano, bass, drum set and guitar.

MUSC 575. STRING PEDAGOGY-BASS. 2 Credits.
This class is designed to educate the non-bassist with the basic functions and pedagogical materials for the instrument within the jazz idiom.

MUSC 576. JAZZ PIANO PEDAGOGY. 2 Credits.
Designed to educate the non-pianist with the basic functions and pedagogical materials and views of the instrument within the jazz idiom.

MUSC 577. DRUM SET PEDAGOGY. 2 Credits.
Designed to educate the non-percussionist with the basic functions and pedagogical materials and views of the instrument within the jazz idiom.
MUSC 578. SAXOPHONE PEDAGOGY. 2 Credits.
Designed to educate the non-saxophonist with the basic functions and pedagogical materials and views of the instrument within the jazz idiom.

MUSC 579. BRASS PEDAGOGY. 2 Credits.
Designed to educate the non-brass player with the basic functions and pedagogical materials and views of the instrument within the jazz idiom.

MUSC 582. ADVANCED ACCOMPANYING-VOCAL. 2 Credits.
Focus is exclusively on the art of vocal/keyboard collaboration, and is open to both pianists and vocalists. Students explore and project different styles and sound qualities required for the artistic performance of diverse chamber ensemble repertoire. Students are engaged in intensive listening, coaching, writing, rehearsing and performing.

MUSC 583. ADVANCED ACCOMPANYING-INSTRUMENTAL. 2 Credits.
Focus is exclusively on the art of instrumental/keyboard collaboration and is open to both pianists and all instrumentalists. Students explore and project different styles and sound qualities required for the artistic performance of diverse chamber ensemble repertoire. Students are engaged in intensive listening, coaching, writing, rehearsing and performance.

MUSC 585. THE HEART OF PERFORMANCE. 1 Credit.
Pre-requisites: junior, senior, or graduate students only.
A "dialogue interactive" course that will approach, but not be limited to the following topics: What is my intention as a professional artist? What blocks my ability to perform at the highest levels? What does it mean to live an artistic life? How do I create abundance in my career, both in opportunity and financially? Purpose and Passion--how do I generate those vital aspects of my chosen career path? Artistic mastery--process versus progress.

MUSC 593. MUSIC OUTREACH. 3 Credits.
Students perform 30 hours of work preparing, delivering and reporting on music classroom/field based outreach experiences in cooperation with a course instructor.

MUSC 595. INTERNSHIP. 1-10 Credits.
MUSC 596. EXPERIMENTAL COURSE. 1-10 Credits.
MUSC 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

MUSC 598. GRADUATE SEMINAR. 3 Credits.
MUSC 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent study projects in a selected field of music.

MUSC 600. THESIS. 1-15 Credits.
Pre-requisites: permission of the applied or area instructor. Thesis.

MUSC 601. GRADUATE RECITAL. 1-15 Credits.
Pre-requisites: permission of the applied or area instructor. Thesis.

MUSC 602. FINAL MASTER'S PROJECT. 1-15 Credits.
For students whose culminating master's project is not a thesis, and/or may be taken as an elective. This may include students in the Performance Emphasis, students in the Jazz Studies Emphasis who are writing a method book or other practical/applied document, or students in any M.M. emphasis who, with advisor permission, are completing any kind of non-thesis project.

MUSC 620. THE ORFF SCHULWERK APPROACH TO MUSIC EDUCATION. 6 Credits.
Exploring research on the philosophical and historical bases of the Orff Schulwerk approach and acquiring skills in applying relevant pedagogies in educational settings.

MUSC 621. EARLY CHILDHOOD MUSIC EDUCATION. 3 Credits.
Exploration of philosophical, sociological, psychological, and pedagogical perspectives in Early Childhood Music Education, leading to the development of skills in the design and implementation of programs.

MUSC 695. GRADUATE JAZZ INTERNSHIP. 1-5 Credits.
Notes: may be repeated twice for a maximum of 5 credits.
Pre-requisites: permission of the instructor, department chair and college dean.
This class is for jazz pedagogy students to learn various aspects of their potential program, including organizing and coordinating a jazz festival. This class will deal extensively with budgets, scheduling, guest artists and all major aspects of a professional event.

MUSC 696. COLLEGE TEACHING INTERNSHIP. 3-15 Credits.
Notes: graded Pass/No Credit.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction and student and course evaluation.

Music Ensemble (MUSE)

MUSE 301. CONCERT JAZZ ORCHESTRA. 1 Credit.
Notes: may be repeated.
Music performance ensemble.

MUSE 302. REPERTORY JAZZ ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 303. JAZZ LAB ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 304. COLLEGIANS. 1 Credit.
Music Performance Ensemble.

MUSE 305. VOCAL JAZZ II. 1 Credit.
Music performance ensemble.

MUSE 310. JAZZ COMBO 1. 1 Credit.
Music performance ensemble.

MUSE 311. JAZZ COMBO 2. 1 Credit.
Music performance ensemble.

MUSE 312. JAZZ COMBO 3. 1 Credit.
Music performance ensemble.

MUSE 313. JAZZ COMBO 4. 1 Credit.
Music performance ensemble.

MUSE 314. JAZZ COMBO 5. 1 Credit.
Music performance ensemble.

MUSE 320. MARCHING BAND. 1 Credit.
Music performance ensemble.

MUSE 321. WIND ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 322. SYMPHONIC BAND. 1 Credit.
Music performance ensemble.

MUSE 330. ORCHESTRA. 1 Credit.
Music performance ensemble.
MUSE 340. SYMPHONIC CHOIR. 1 Credit.
Music performance ensemble.

MUSE 341. CONCERT CHOIR. 1 Credit.
Music performance ensemble.

MUSE 350. OPERA. 1 Credit.
Music performance ensemble.

MUSE 360. BRASS QUINTET. 1 Credit.
Music performance ensemble.

MUSE 361. CELLO ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 362. CHAMBER MUSIC. 1 Credit.
Music performance ensemble.

MUSE 363. WOODWIND CHAMBER ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 364. DOUBLE BASS ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 365. FLUTE ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 366. GUITAR ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 367. PERCUSSION ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 368. PIANO ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 369. SAXOPHONE ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 370. TROMBONE CHOIR. 1 Credit.
Music performance ensemble.

MUSE 371. TRUMPET ENSEMBLE. 1 Credit.
Music performance ensemble.

MUSE 372. TUBA/EUPHONIUM CHOIR. 1 Credit.
Music performance ensemble.

MUSE 373. HORN ENSEMBLE. 1 Credit.
Students read, rehearse and perform repertoire for the horn ensemble.

MUSE 380. POP COMBO. 1 Credit.
Music performance ensemble.

MUSE 503. JAZZ LAB ENSEMBLE. 1 Credit.
This is a music ensemble course, designed to provide exposure to a wide variety of small jazz ensemble literature as well as an opportunity for students to develop musical interaction skills in a small group/chamber ensemble setting. Literature includes standard repertory, techniques in jazz rehearsing and related jazz traditions. Student Learning Outcomes: students will successfully perform in numerous ensemble concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 504. COLLEGIANS. 1 Credit.
This is a music vocal ensemble course, designed to provide exposure to a wide variety of small jazz ensemble literature as well as an opportunity for students to develop musical interaction skills in a small group/chamber ensemble setting. Literature includes standard repertory, techniques in jazz rehearsing and related jazz traditions. Student Learning Outcomes: students will successfully perform in numerous ensemble concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 505. VOCAL JAZZ. 1 Credit.
This is a music vocal ensemble course, designed to provide exposure to a wide variety of small jazz ensemble literature as well as an opportunity for students to develop musical interaction skills in a small group/chamber ensemble setting. Literature includes standard repertory, techniques in jazz rehearsing and related jazz traditions. Student Learning Outcomes: students will successfully perform in numerous ensemble concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 510. JAZZ COMBO 1. 1 Credit.
A small jazz ensemble group designed to provide performing experience in this specialized jazz idiom. Students will develop collaborative performing skills and opportunity to learn jazz combo repertoire. Students will audition and be placed in the appropriate combo based on level. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 511. JAZZ COMBO 2. 1 Credit.
A small jazz ensemble group designed to provide performing experience in this specialized jazz idiom. Students will develop collaborative performing skills, and opportunity to learn jazz combo repertoire. Students will audition and be placed in the appropriate combo based on level. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 512. JAZZ COMBO 3. 1 Credit.
A small jazz ensemble group designed to provide performing experience in this specialized jazz idiom. Students will develop collaborative performing skills, and opportunity to learn jazz combo repertoire. Students will audition and be placed in the appropriate combo based on level. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 513. JAZZ COMBO 4. 1 Credit.
A small jazz ensemble group designed to provide performing experience in this specialized jazz idiom. Students will develop collaborative performing skills and opportunity to learn jazz combo repertoire. Students will audition and be placed in the appropriate combo based on level. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.
MUSE 514. JAZZ COMBO 5. 1 Credit.
A small jazz ensemble group designed to provide performing experience in this specialized jazz idiom. Students will develop collaborative performing skills, and opportunity to learn jazz combo repertoire. Students will audition and be placed in the appropriate combo based on level. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 520. MARCHING BAND. 1 Credit.
A large performing ensemble designed to learn music for marching band, perform at football games, and learn marching band field formations. Students will develop collaborative performing skills and precision in marching techniques. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 521. WIND ENSEMBLE. 1 Credit.
A large concert ensemble designed to provide rehearsal and performance experience in the Wind Ensemble repertoire. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 522. SYMPHONIC BAND. 1 Credit.
A large concert ensemble designed to provide rehearsal and performance experience in the symphonic band repertoire. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 530. ORCHESTRA. 1 Credit.
A large concert ensemble designed to provide rehearsal and performance experience in the orchestral repertoire. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 540. SYMPHONIC CHOIR. 1 Credit.
A large concert ensemble designed to provide rehearsal and performance experience in the symphonic choral repertoire. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 541. CONCERT CHOIR. 1 Credit.
A large concert ensemble designed to provide rehearsal and performance experience in the concert choral repertoire. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

MUSE 550. OPERA. 1 Credit.
This course is designed to provide experience with opera production techniques, relevant vocal repertoire from the opera genre, and opera staging. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 560. BRASS QUINTET. 1 Credit.
This course is designed to provide the opportunity to experience the literature for brass ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 561. CELLO ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for cello ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 562. CHAMBER MUSIC. 1 Credit.
This course is designed to provide the opportunity to experience the literature for the traditional chamber ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 563. WOODWIND CHAMBER ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for woodwind ensemble, and to build performance experience and techniques in stage presence. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 564. DOUBLE BASS ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for double bass ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 565. FLUTE ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for flute ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: Students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.
MUSE 566. GUITAR ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for guitar ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 567. PERCUSSION ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for percussion ensemble and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 568. PIANO ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for piano ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard duo and 2–piano repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 569. SAXOPHONE ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for saxophone ensemble and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 570. TROMBONE CHOIR. 1 Credit.
This course is designed to provide the opportunity to experience the literature for trombone ensemble and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 571. TRUMPET ENSEMBLE. 1 Credit.
This course is designed to provide the opportunity to experience the literature for trumpet ensemble, and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 572. TUBA/EUPHONIUM CHOIR. 1 Credit.
This course is designed to provide the opportunity to experience the literature for tuba/euphonium ensemble and to build musicianship through the small ensemble genre. Repertoire will be from the standard repertoire as well as new compositions by both professional artists and student composers. Techniques in style and interpretation are included. Student Learning Outcomes: students will successfully perform in concert opportunities, demonstrating mastery of the music, individually and collaboratively.

MUSE 580. POP COMBO. 1 Credit.
This is a music ensemble course, designed to provide exposure to a wide variety of small ensemble literature drawn from the repertoire composed since 1940. The course provides intensive coaching on the unique techniques of contemporary repertoire, as well as an opportunity for students to develop musical interaction skills in a small group/chamber ensemble setting. Student Learning Outcomes: students will successfully perform in numerous ensemble concert opportunities throughout the year, demonstrating mastery of the music, individually and collaboratively.

Natural Science Education (NTSC)

NTSC 196. EXPERIMENTAL COURSE. 1-5 Credits.

NTSC 296. EXPERIMENTAL COURSE. 1-5 Credits.

NTSC 299. INDIVIDUAL STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Individual studies in natural science or planetarium operations.

NTSC 301. MIDDLE LEVEL EARTH SCIENCE. 5 Credits.
Pre-requisites: GEOG 115 or GEOL 115; MATH 211 and successful completion or concurrent enrollment in CHEM 161.
This is a required class for students planning to teach middle school science. Emphasis will be on laboratory and inquiry based earth science investigations the contents of which support instruction of the National Science Education Standards and Washington Essential Academic Learning Requirements (EALRs).

NTSC 302. MIDDLE LEVEL LIFE SCI INQUIRY. 5 Credits.
Pre-requisites: BIOL 115; CHEM 161; MATH 211.
This course is designed for students seeking the Middle Level Science Endorsement. Emphasis is placed on understanding the life science principles underlying the 5-9 grade level expectations of the Washington State Essential Academic Learning Requirements. Students will construct knowledge of these principles through inquiry.

NTSC 390. MIDDLE LEVEL SCIENCE METHODS. 3 Credits.
Pre-requisites: NTSC 301 and NTSC 302.
This science methods course is designed for students seeking endorsement to teach middle school science. The class includes information and strategies for teaching the Washington State science standards. The focus will be on addressing commonly held misconceptions, lab safety as well as techniques and activities for teaching life, earth and physical sciences at the middle school level.

NTSC 396. EXPERIMENTAL COURSE. 1-5 Credits.

NTSC 496. EXPERIMENTAL COURSE. 1-5 Credits.

NTSC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

NTSC 499. DIRECTED STUDY. 1-10 Credits.

NTSC 539. SPECIAL TOPICS. 1-10 Credits.
OCTH 101. INTRODUCTION TO OCCUPATIONAL THERAPY. 2 Credits.
This course is to provide an overview of occupation, the practice of occupational therapy, disability awareness, and community supports for individuals with disabilities. The students will become aware of the diversity of occupational therapy practice, practice environments, and occupational therapy practitioners.

OCTH 292. FOUNDATIONS OF DOCUMENTATION AND MEDICAL TERMINOLOGY FOR THE REHABILITATION PROFESSIONAL. 2 Credits.
This is a self-paced course designed for the student to acquire a foundational knowledge of medical terminology and professional documentation and their applications within the rehabilitation professions. This is accomplished by examining the processes of basic word-building skills and definitions including word roots, prefixes, suffixes and combining forms. Students will apply these concepts and skills to basic medical chart review and professional documentation.

OCTH 501S. APPLIED HUMAN ANATOMY FOR OCCUPATIONAL THERAPY. 4 Credits.
This course is an intensive review of human anatomy and physiology as it pertains to the practice of occupational therapy. It is designed to provide the student with an opportunity to learn anatomical structures and the functional relationships of these structures to each other. Cadaver dissection is a critical component of all labs.

OCTH 502S. CLINICAL KINESIOLOGY AND BIOMECHANICS. 3 Credits.
This course is an overview study of human movement in a person/environment context. The study of the normal biomechanics and kinesiology of the musculoskeletal system is seen as a prerequisite to the application of assessment procedures, data collection, and assessment interpretation for the planning of therapeutic interventions in occupational therapy. Incorporation of clinical problems and pathokinesiology are also included through a structured inquiry-based case-study process. The lab portion of the class also trains students in the basic principles and application of manual muscle testing, goniometry, and principles that enhance strength and activity tolerance. To enhance student learning, designated assignments, and course laboratory activities. Application of content knowledge and a synthesis of how it relates to occupational performance will be emphasized. Students will be expected to use the Occupational Therapy Practice Framework: Domain and Process as a mechanism for expressing physical performance elements in the practice of occupational therapy.

OCTH 503S. APPLIED NEUROLOGY FOR OCCUPATIONAL THERAPY. 3 Credits.
This course is an overview of the neurological function and process in the human body. Normal neurologic development throughout the life span will be the primary focus. Application of knowledge concerning neurological process and occupational performance will be emphasized.

OCTH 504S. OCCUPATIONAL THERAPY THEORY AND FOUNDATIONS. 4 Credits.
This course introduces students to the current occupational therapy practice framework, which defines domain and process. It provides opportunities to understand the historical and current evolution of occupational therapy's philosophy and theory development, along with the contributions of theorists within the profession. Students will learn the process of theory development and analyze selected practice models and frames of reference for application to occupational therapy evaluation and intervention. The course will also explore the application and importance of occupational therapy practice models and frames of reference to the development of new knowledge, ongoing research, and the advancement of the profession.

OCTH 505S. IMPACT OF HUMAN DISEASE ON OCCUPATIONAL PERFORMANCE. 1 Credit.
This course provides an overview of human disease and injury processes occurring throughout the lifespan. The etiology, course, prognosis, treatment and management of each condition will be explored. The course is designed to introduce the student to a variety of injuries and disease processes encountered in the field of occupational therapy. Emphasis will be placed on providing necessary, precautionary and practical information of each disease within a framework of group process and problem solving related skills. Further, the impact of disease and injury on occupational performance and quality of life will be explored. Considerations for the practice of occupational therapy will be discussed with a focus on clinical judgment, team collaboration and global treatment interventions.

OCTH 506S. PRACTICE SKILLS AND ETHICS. 1 Credit.
Notes: graded Pass/Fail.
This course is designed to provide entry level occupational therapy students’ knowledge and skills in practice skills and policy. The course will focus on four main elements of practice including basic clinical skills, clinical writing and documentation, professional roles and policy, and ethics. The intent is for the student to establish basic skills that can be further developed in practice specific courses to enable them to demonstrate entry-level practice competencies.

OCTH 507S. ACTIVITY ANALYSIS. 1 Credit.
This course is the first of a two part series, OCTH 507S Activity Analysis and OCTH 508S Occupational Synthesis. The Activity Analysis course will provide the students with a method, structure, and process on how to analyze daily life activities and discover the therapeutic values that are inherent in all activities. Students will gain the knowledge and skills to analyze daily life activities and discover the potential therapeutic values in daily life activities that support the intervention strategies with persons who are experiencing dysfunction in occupational performance. This course will introduce students to the relationship between activity analysis, theories of occupation, and the development of intervention strategies for clients.
OCTH 508S. OCCUPATIONAL SYNTHESIS. 3 Credits.
This course will provide the learner with opportunities to develop the knowledge and skills for the in-depth evaluation and analysis of occupational performance through the process of task analysis, the lens of the Occupational Therapy Framework, and the concepts of occupational justice, identity, and meaning as related to occupation. The relationship between the assessment of occupational performance and the conceptualization of grading and adapting occupations coupled with the importance of the personal meaning of occupation for those engaged in them will be critically examined. Students will learn and apply the process of activity synthesis to occupational therapy interventions for individuals across the lifespan with cognitive, physical, and/or emotional conditions or aspects of their occupational needs or who they are as occupational beings. The development of science and social based observational, organizational and problem-solving skills for analysis and activity adaptation will be integral to the course activities. The course content is offered through lecture, discussion, case studies, readings and interactive laboratory activities.

OCTH 510S. GROUP PROCESS. 3 Credits.
This course focuses on developing several advanced skills of professional communication and behaviors. Emphasis is on: a) intentional use of self; b) group facilitation, b) group process, c) interpersonal communication, d) skills in motivational interviewing, and e) a reflective evaluation process used for building interpersonal communication skills. Advanced professional communication skills and group design/process skills are necessary tools for emerging and traditional practice arenas in occupational therapy.

OCTH 512S. FIELDWORK SEMINAR. 1 Credit.
This course will focus on preparation for the transition from classroom to Fieldwork Level II (FW II) experiences. Students will have the opportunity to identify and analyze the Level II fieldwork expectations, explore the supervisory and interdisciplinary team relationships, review professional and ethical behavior, develop a Level II Fieldwork Portfolio, review AOTA, NBCOT and the state of Washington licensure requirements and begin preparation for job searches.

OCTH 520S. PRINCIPLES OF EVIDENCE BASED PRACTICE. 1 Credit. Notes: graded Pass/Fail.
This is the first of two courses designed to introduce the student to evidence based practice and the process of critical inquiry. This course will be offered in an interdisciplinary format with the Department of Physical Therapy. These courses will prepare the student to become a knowledgeable consumer of research and the professional literature as it relates to the practice of occupational therapy. In this course the student will develop competence in identifying, locating, retrieving, understanding and applying the principles of research to the practice of occupational therapy.

OCTH 522S. RESEARCH METHODS IN OCCUPATIONAL THERAPY. 3 Credits.
Satisfies: Senior capstone university graduation requirement for students pursuing the Interdisciplinary BA Occupational Therapy Track. Students pursuing a Bachelor of Science degree in Exercise Science need to complete the senior capstone university graduation requirements specific to those programs. This course is designed to introduce the student to the process of critical inquiry regarding a broad spectrum of research methods across the quantitative and qualitative spectrum. This course will prepare the student to be a knowledgeable consumer of research and the professional literature as it relates to the practice of occupational therapy. In this course, the student will develop competence in critiquing and applying various research methods and designs to the application of evidence based practice in occupational therapy. This course serves as the capstone for the Interdisciplinary Studies, Occupational Therapy Track. The Capstone Project will require the completion of either a case study based on current evidence or a research proposal.

OCTH 523S. ASSESSMENT AND EVALUATION OF OCCUPATIONAL PERFORMANCE. 3 Credits.
This course will provide you with the opportunity to identify, evaluate, and critically analyze the psychometric properties and application of several of the most commonly used evaluation and assessment tools in the profession of occupational therapy. The course offers learners the following information and experiences: 1) knowledge of the psychometrics for standardized assessment tools, 2) analysis of the assessment need, 3) critical selection of appropriate evaluation tools to address the assessment need, 4) pragmatic application of the tools on a human subject whenever possible, and 5) interpretation of data.

OCTH 530S. OCCUPATIONAL PERFORMANCE AND MENTAL HEALTH. 4 Credits.
The goal of this course is to provide the learner with the foundations of service provision for working with individuals with mental illness. Varying roles for the occupational therapist will be explored in this practice arena. The lived experience of mental illness and recovery is highlighted. This course is paired with a Level I fieldwork experience which will allow students to apply what they are learning in OCTH 530S in a variety of settings within the community that offer services to persons experiencing mental illness and/or addiction.

OCTH 531S. OCCUPATIONAL PERFORMANCE AND ADULTS. 4 Credits.
This course provides the learner with the knowledge and skills for assessment, intervention, planning, provision of intervention and outcome analysis related dysfunction in occupational performance in adults. The course will focus on the provision of occupational therapy services from young adulthood through geriatrics. Students will learn about disabling conditions, documentation, use of assessment tools/procedures (e.g., evaluation of muscle strength, ROM, ADL/IADL, soft tissue dysfunction, etc.), evidence-based practice, frames of reference and service implementation throughout the continuum of care for this population. Occupational therapy principles and theories will be applied through case studies, classroom discussion laboratory exercises and fieldwork experiences.
OCTH 532S. OCCUPATIONAL PERFORMANCE AND PEDIATRICS. 4 Credits.
This course provides the learner with theories, knowledge and application opportunities related to evaluation, analysis and intervention planning for children with special needs in a variety of pediatric occupational therapy practice settings. The course will focus on the provision of occupational therapy services with infants, children and adolescents. Specific skill building will also focus on evaluation, interpreting evaluation information and designing evidence-based intervention. The analysis of childhood occupations, disabling conditions, documentation, analysis and application of frames of reference and issues of practice leadership will be examined. Occupational therapy principles and theories will be applied to case studies and through analysis and discussion of Fieldwork Level I (FWI) experiences.

OCTH 540S. HEALTH AND WELLNESS. 3 Credits.
This course provides an overview of occupational performance within a health promotion, wellness and lifestyle medicine framework for both mental and physical wellness. Students will explore opportunities for occupational therapists to promote health and wellness through participation in occupations. Course assignments will highlight traditional and contemporary approaches occupational therapists can use with individual clients and in population health settings. Selected occupational therapy theories and health promotion models will be presented and discussed, including their application to the practice of occupational therapy. Course written assignments will incorporate principles of clinical reasoning, practical clinical applications and professional documentation. Students will explore and evaluate tools and approaches to health and wellness and contribute to creating an online professional resource.

OCTH 541S. TECHNOLOGIES FOR ENABLING OCCUPATIONAL PERFORMANCE. 3 Credits.
This course is designed to help occupational therapy students integrate occupational assessments, needs identification, selection and design of both high and low technology devices to maximize client independence in their occupational performance areas. Additionally, the course incorporates interprofessional experiences with senior students from the Department of Engineering and Design in creating products and providing technology services to consumers.

OCTH 542S. LEADERSHIP AND MANAGEMENT IN OCCUPATIONAL THERAPY PRACTICE. 3 Credits.
This course focuses on leadership and management. The course will provide a foundation for understanding leadership theories, strategies and styles. It will cover topical areas related to the management of occupational therapy services in both traditional and emerging areas of practice. Opportunities will be offered to explore learners' current leadership style and to apply concepts of leadership through community experience. Comparisons between leadership and management will be discussed with the underlying concept being that strong leadership foundation is critical to successful management. Current themes, opportunities and challenges for both leadership and management will be explored.

OCTH 543S. EMERGING PRACTICE. 3 Credits.
This course is designed to explore the provision of occupational therapy services within community-based and emerging settings and roles. This course is organized into three areas of content: 1) a focus on the context and theoretical foundations for emerging and community-based practices in the profession of occupational therapy both nationally and internationally, 2) an examination of the processes of program and community development for community-based and emerging roles and services, and 3) an overview of the occupational therapy evaluation and intervention processes for selected practice settings and roles. The course will also include information and discussion about strategies to gain skills relevant to the challenge of developing and delivering services in expanded practice contexts and roles. Diverse professional roles and activities within the occupational therapy scope of practice will be presented.

OCTH 595S. CLINICAL FIELDWORK I. 1 Credit.
Notes: must be repeated four times for a total of 4 credits and is graded Pass/Fail.
The Clinical Fieldwork Level 1 introduces students to the fieldwork experience, integrates application of classroom knowledge to the clinical setting and offers opportunities in developing a therapeutic rapport and understanding the needs of client.

OCTH 599S. DIRECTED STUDY. 1-4 Credits.
Independent and directed study.

OCTH 601S. PROFESSIONAL PROJECT I. 3 Credits.
Notes: graded Pass/Fail.
This is the first in a series of two capstone/research project courses in which students work on projects established in OCTH 522S Research Methods. This is the first in a series of two capstone/research project courses in which students are introduced to research methods and design. This course will also serve as the mechanism by which students select their capstone/research project to be addressed in OCTH 601 and OCTH 602. Students will establish timelines for completion of the capstone/research project which may be done in either group or individual formats.

OCTH 602S. PROFESSIONAL PROJECT II. 3 Credits.
Notes: graded Pass/Fail.
This is the second of two courses in which students will continue to develop and will complete and present their graduate capstone project. In this course students will continue to work with their Graduate Faculty Committee Chair, either individually or in small groups as determined by their capstone/research project selection, to synthesize the ideas and concepts relevant to the capstone/research project. All projects will require the completion of a scholarly report demonstrating effective communication for professional writing. Publication of the reports is highly encouraged. The assignment is to be completed as partial completion of the requirements for the degree of Master of Occupational Therapy.
Operations Management (OPSM)

OPSM 299. DIRECTED STUDY. 1-15 Credits.

OPSM 330. OPERATIONS MANAGEMENT. 4 Credits.
Pre-requisites: completion of CPLA 100 and CPLA 101 or CPLA 120 and DSCI 245 (or equivalent) and one of the following: MATH 142, MATH 161 or MATH 200.

An integrating study focusing upon the models and methods of production and operations management. Managerial approaches to planning, scheduling and controlling both product and service. Tools include process analysis, plant location, plant layout, capacity planning, inventory control, forecasting, materials requirement planning, PERT/CPM and quality control. Also studies computer-based operations control systems applicable to the above topics.

OPSM 395. INTERNSHIP. 1-5 Credits.
OPSM 398. SEMINAR. 1-5 Credits.
OPSM 399. DIRECTED STUDY. 1-15 Credits.
OPSM 425. SERVICE AND OPERATION ANALYSIS. 4 Credits.
Pre-requisites: OPSM 330.
This integrative course includes analysis of both service and manufacturing organizations. The course focuses on case studies and applied quantitative techniques for managing the entire operations of a firm. Decision-making is emphasized through computer simulation and interactive discussion of field and textbook case studies.

OPSM 428. GLOBAL SUPPLY CHAIN MANAGEMENT. 4 Credits.
Pre-requisites: senior standing or permission of instructor.
This course examines the actions and values responsible for continuous improvement in the design, development and management process of an organization’s supply system. The objective of the course is to understand how to improve the supply system’s profitability and ensure its survival as well as the profitability and survival of its customers and suppliers. Global issues and development of supplier relationships are integrated throughout the course material. Cases and field trips are included as appropriate.

OPSM 441. QUALITY MANAGEMENT. 4 Credits.
Pre-requisites: OPSM 330.
This course is a review and application of quality management concepts in public and private enterprises. Both qualitative and quantitative techniques are analyzed. Cases and field trips are included as appropriate.

OPSM 495. PROFESSIONAL INTERNSHIP-OPSM. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

OPSM 498. SEMINAR. 1-5 Credits.

OPSM 499. DIRECTED STUDY. 1-5 Credits.
Prerequisite: permission of the instructor, department chair and college dean.

OPSM 598. GRADUATE SEMINAR. 1-5 Credits.

Philosophy (PHIL)

PHIL 210. CRITICAL THINKING. 5 Credits.
Pre-requisites: successful completion of ENGL 101 and pre-university basic skills in mathematics.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
Logic as a tool for the analysis of informal arguments. The course develops techniques for formalizing and testing arguments from everyday life.

PHIL 211. INTRODUCTORY PHILOSOPHY. 5 Credits.
Pre-requisites: successful completion of ENGL 101.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
Some traditional problems about the nature of the world and human knowledge. Typical problems concern the existence of God, personal identity and free will, the relations of minds to bodies and of perception to the external world.
PHIL 212. INTRODUCTORY ETHICS. 5 Credits.
Pre-requisites: successful completion of ENGL 101.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
An examination of the nature and content of morality. Two questions are central: Is morality based on knowledge or on emotion? Is there a rational motive to act morally?

PHIL 213. MORAL ISSUES IN AMERICA. 5 Credits.
Pre-requisites: successful completion of ENGL 101.
Satisfies: GECR for humanities and fine arts, list 3, philosophy and reasoning.
An introduction to normative moral issues in current thought and life. Typical problems concern social justice, the relation of work to a person's concept of himself, manipulation and indoctrination in a technological society and relationships between social success and human flourishing.

PHIL 214. PHILOSOPHICAL VOICES AND POP CULTURE. 5 Credits.
Pre-requisites: ENGL 101.
Satisfies: cultural and gender diversity university graduation requirement.
This course is a thematic survey of several areas of basic philosophical problems. It will combine an examination of philosophical themes in media and popular culture—including fiction, television and cinema—with retrieval of under-represented, diverse voices addressing each thematic area. Themes may include, but are not restricted to: metaphysics, theory of mind and knowledge, aesthetics, ethics and social and political theory.

PHIL 299. INDEPENDENT STUDY. 1-5 Credits.
Independent Study

PHIL 301. INTRODUCTION TO FORMAL LOGIC. 5 Credits.
Pre-requisites: successful completion of ENGL 101 and and MTHD 104 or placement into college-level MATH. PHIL 210 suggested.
Logic as a formal deductive system. The course develops sentential logic and introduces predicate logic. It examines arguments typical of science and mathematics and covers some elementary metatheorems for sentential logic.

PHIL 311. SOCIAL AND POLITICAL PHILOSOPHY. 5 Credits.
Cross listed: HONS 311.
Pre-requisites: successful completion of ENGL 101.
Major political theories and analysis of arguments that attempt to justify actual or proposed political and social institutions.

PHIL 312. PHILOSOPHY OF RELIGION. 5 Credits.
Cross listed: HONS 312.
Pre-requisites: successful completion of ENGL 101.
Philosophical problems with religion and theology. Typical problems concern the existence of God, God's relation to evil, the immortality of the soul, the meaning of religious language and the criteria for theological verification.

PHIL 320. HISTORY OF ANCIENT WESTERN PHILOSOPHY. 5 Credits.
Cross listed: HONS 320.
Pre-requisites: successful completion of ENGL 101.
The history of Greek philosophy from the first theories about the causes of the universe to the Socratic inquiry about how to live and to Plotinus' theory of the soul.

PHIL 321. HISTORY OF MODERN WESTERN PHILOSOPHY. 5 Credits.
Cross listed: HONS 321.
Pre-requisites: successful completion of ENGL 101.
16th–18th century European philosophy against the background of religion and science. The main theme is the relation of knowledge to reason and experience.

PHIL 322. HISTORY OF CONTEMPORARY WESTERN PHILOSOPHY. 5 Credits.
Cross listed: HONS 322.
Pre-requisites: successful completion of ENGL 101.
This course is a survey of the major European and American schools of the 19th and 20th century philosophy. Course material includes German idealism, existentialism, utilitarianism, Marxism, pragmatism, feminism, logical positivism and post-modernism.

PHIL 331. CHINESE PHILOSOPHY. 5 Credits.
Cross listed: HONS 331.
Pre-requisites: successful completion of ENGL 101.
Confucius' humanistic ethics, the naturalistic philosophy of Taoism and Buddhism—especially the Zen Buddhist method of enlightenment.

PHIL 398. SEMINARS ON SELECTED TOPICS. 1-5 Credits.
Pre-requisites: 5 credits of philosophy and successful completion of ENGL 101.

PHIL 400. SPECIAL PERIODS IN THE HISTORY OF PHILOSOPHY. 5 Credits.
Cross listed: HONS 400.
Pre-requisites: successful completion of ENGL 101.
Intensive study of a period in the history of philosophy that is not included in the 320–322 sequence.

PHIL 411. THEORY OF KNOWLEDGE. 5 Credits.
Pre-requisites: 5 credits of philosophy and successful completion of ENGL 101. The nature, grounds, and limits of human knowledge. Topics typical of the course are perception, memory, truth, knowledge of other minds, and the relations among knowing, believing and doubting.

PHIL 417. WOMEN AND ETHICS. 5 Credits.
Cross listed: WMST 417.
Pre-requisites: at least one of the following: WMST 101 or WMST 310 or PHIL 211 or PHIL 212.
Satisfies: cultural and gender diversity university graduation requirement.
The course will begin with a brief examination of the treatment of women within traditional ethics. We will then address the views of early women philosophers, followed by a close analysis of contemporary feminist approaches to ethics.

PHIL 420. QUEER THEORY. 5 Credits.
Cross listed: WMST 420.
Pre-requisites: junior standing.
This course examines the emerging field of queer theory. Queer theory questions the stability of various identity categories, suggesting instead that all performances of sex, gender, and sexuality are influenced by cultural, historical and political factors.

PHIL 435. MAJOR AUTHORS IN THE HISTORY OF PHILOSOPHY. 5 Credits.
Cross listed: HONS 435.
Notes: repeatable for credit with different authors.
Pre-requisites: successful completion of ENGL 101.
Intensive study of a single major philosopher.

PHIL 440. WOMEN AND PHILOSOPHY. 5 Credits.
Cross listed: WMST 440.
Pre-requisites: at least 4 credits in WMST and/or PHIL.
The course offers an examination of the treatment of concepts relating to women and femininity, both by traditional philosophers and by more recent feminist philosophers. The course will address key issues within philosophy while simultaneously exploring the role of gender in the production of philosophical knowledge.
PHIL 445. BIOMEDICAL ETHICS. 5 Credits.
Pre-requisites: ENGL 101.
This course is an examination of a variety of moral theories as well as professional oaths and codes of ethics in order to clarify, analyze and propose solutions to significant contemporary ethical problems in biological research and medical practice. These may include abortion, genetic research on humans, animals and crops, stem cell research, advance directives, end-of-life issues, etc.

PHIL 447. ENVIRONMENTAL ETHICS. 5 Credits.
Pre-requisites: PHIL 212 or PHIL 213 or permission of instructor.
This course is a study of mainstream and alternative moral theories regarding the environment, including the application of these theories towards contemporary environmental problems, such as climate change, pollution, resource depletion, species extinction and land use.

PHIL 490. PHILOSOPHY SENIOR CAPSTONE. 5 Credits.
Pre-requisites: completion of PHIL 301, PHIL 320, PHIL 321 and PHIL 322.
Satisfies: senior capstone university graduation requirement.
In this seminar, the advanced student of philosophy consolidates and synthesizes philosophical scholarship and community-focused, practical application. Working collaboratively, instructor and students relate the theories and methods of public intellectuals and social critics across various disciplines, drawing conclusions about the nature of critical thinking, public argumentation, and social change.

PHIL 496. EXPERIMENTAL COURSE. 1-5 Credits.

PHIL 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

PHIL 498. SEMINARS. 1-5 Credits.

PHIL 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: 10 credits of philosophy and successful completion of ENGL 101; permission of the instructor, department chair and college dean.

**Physical Education (PHED)**

PHED 120. PE ACTIVITIES. 1 Credit.
Notes: designed primarily for women.
Women's conditioning classes for varsity sports, volleyball, tennis, basketball, soccer, track, etc.

PHED 125. PE ACTIVITIES. 1 Credit.
Notes: co-educational.
Aerobics, archery, aquacise, aquatic fitness, badminton, basketball, better back program, bicycling, corrective lab, country swing dance, frisbee, fun and fitness, golf, gymnastics, jogging, karate, military conditioning, personal defense, pickleball, progressive weight training, racquetball, running, self-defense, skiing, soccer, softball, social dance, swimming, tennis, trap shooting, triathlon training, volleyball, and walking. Corrective laboratory is offered for those unable to participate in regular activities because of disability.

PHED 130. PE ACTIVITIES. 1 Credit.
Notes: designed primarily for men.
Men's conditioning classes for varsity sports: baseball, basketball, cross country, football, tennis and track.

PHED 132. KINESIOLOGICAL APPLICATIONS OF HUMAN ANATOMY AND PHYSIOLOGY. 4 Credits.
Offered: Fall This course will provide students with an understanding of the physiological and anatomical basis of human movement. Students will be presented with examples from sports, physical activity, recreation and rehabilitation to enhance their understanding of anatomical structures, their origin, insertion and function.

PHED 135. SPECIALIZED FITNESS ACTIVITIES. 2 Credits.
Includes a group of fitness-based activity classes designed to promote muscular strength and endurance, cardiovascular endurance and flexibility. Programs are developed to meet individual participants’ interests and fitness levels, and activities are conducted at a variety of locations.

PHED 150. FAST FITNESS. 2 Credits.
Comprehensive physical fitness course designed to develop strength, flexibility, and endurance (muscular and cardiovascular) in an effective and efficient manner through use of the EWU Fitness Center. Mandatory orientation and evaluation (pre-testing and post-testing) accompanies the program. Designed to develop baseline fitness levels for all persons with varying fitness levels. Lab.

PHED 151. GROUP EXERCISE. 2 Credits.
Group Exercise involves fitness activities done with music using cardiovascular exercise, muscular strength endurance, and flexibility exercises are used to develop the health related components of physical fitness. Classes may include step training, aerobic kickboxing, yoga for fitness, stability ball training, and muscle pump classes. Emphasis will be placed on improving fitness, having fun, and learning about healthy living.

PHED 152. STRENGTH/WEIGHT TRAINING. 2 Credits.
Strength/weight training provides students an opportunity to develop musculoskeletal fitness based on the scientific principles of resistance training. Assistance will be given to students in developing a program design to meet their fitness goals.

PHED 196. EXPERIMENTAL COURSE. 1-5 Credits.

PHED 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 2 Credits.

PHED 199. DIRECTED STUDY. 1-15 Credits.

PHED 251. MOTOR CONTROL AND LEARNING. 4 Credits.
This course introduces students to the processes that underlie human movement through bridging the gap between research and practice. It provides the necessary tools to build a solid foundation for assessing performance, providing effective instruction, designing practices and training experiences to optimize skill acquisition and performance.

PHED 259. SPORTS FIRST AID AND INJURY PREVENTION. 3 Credits.
This course is designed for those seeking to become coaches in high school, college and university, Olympic and competitive club-sport programs for athletes 14 years of age and older. The primary objective of this course is to introduce the coach to the importance of safety and injury prevention in sport settings.

PHED 260. SPORT SCIENCES FOR COACHING. 3 Credits.
Notes: Leader Level.
Men's conditioning classes for varsity sports: baseball, basketball, cross country, football, tennis and track. A professional preparation course for coaches designed to acquaint students with basic scientific information needed in coaching.
PHED 261. COACHING SPORTS TECHNICAL AND TACTICAL SKILLS. 3 Credits.
The course is designed for those seeking to become coaches in high school, college and university, Olympic, and competitive club-sport programs for athletes 14 years of age and older. Students will gain a solid understanding of sport-specific technical and tactical skills in order to teach these skills effectively. They will also gain valuable insight on developing practice and season plans and coaching on game day.

PHED 265. INTRODUCTION TO COLLEGE LIFE. 3 Credits.
Notes: only offered fall quarter.
This course is designed to assist EWU freshman and transfer student-athletes in transitioning to Eastern Washington University and to Eagle athletics, developing and improving essential academic, personal health and wellness, and social skills, making connections with the campus and local community as well as becoming oriented with campus resources and facilities and exploring career and academic goals.

PHED 278. COACHING VOLLEYBALL. 3 Credits.
Coaching techniques and strategies in volleyball.

PHED 281. COACHING FOOTBALL. 3 Credits.
Coaching techniques and strategies in football.

PHED 282. COACHING BASKETBALL. 3 Credits.
Coaching techniques and strategies in basketball.

PHED 283. COACHING TRACK. 3 Credits.
Coaching techniques and strategies in track.

PHED 285. COACHING BASEBALL/SOFTBALL. 3 Credits.
This course provides an introduction to coaching techniques and strategies in baseball and softball.

PHED 296. EXPERIMENTAL COURSE. 1-5 Credits.
Pre-requisites: permission of the instructor and the department chair.
Special studies in physical education. Selected topics vary according to student and faculty interest.

PHED 299. INDIVIDUAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Study of selected problems in physical education.

PHED 301. PERFORMANCE ENHANCEMENT IN SPORT AND PHYSICAL ACTIVITY. 3 Credits.
This course is designed to be a practical, hands-on approach to a broad range of interventions aimed at improving performance in sport and physical activity settings. The focus of the course is on key mental tools (e.g., imagery, goal-setting, relaxation techniques, self-talk) and how they can be applied to facilitate enhancement of the key mental skills such as self-confidence, concentration, controlling emotions and staying optimally motivated. The course material is designed to help all students who are interested in maximizing performance in sport or physical activity.

PHED 333. GROUP EXERCISE INSTRUCTOR TRAINING. 2 Credits.
Notes: taught fall, winter, spring.
This course educates potential group exercise instructors. The content includes practical experience in group fitness activities. Upon completion of this course, students will be better prepared to take the ACE national group fitness exam and design a safe and effective class.

PHED 334. PERSONAL TRAINING. 3 Credits.
Personal Training is a comprehensive course designed to prepare students to become certified Personal Trainers.

PHED 335. STRENGTH AND CONDITIONING PROLAB. 2 Credits.
A professional laboratory course is designed to provide the knowledge and practical experiences necessary for becoming a certified strength and conditioning professional. The focus of the course is on athletic populations.

PHED 336. INDIVIDUAL SPORTS. 2 Credits.
Notes: taught all quarters.
Pre-requisites: PHED 337 and PHED 375 with a grade ≥2.8 or permission of instructor.
This course is a physical education course designed to develop skills and progressive methods in teaching individual sports for effective K-12 instruction.

PHED 337. TEAM SPORTS. 2 Credits.
Pre-requisites: PHED 341 and PHED 365 with a grade ≥2.8, concurrent enrollment in PHED 375 and successful completion of the West B. This is a physical education course designed to develop skills and progressive methods in teaching team sports for effective K-12 instruction.

PHED 340. RHYTHMS AND GAMES. 2 Credits.
Pre-requisites: taught spring quarter.
Pre-requisites: PHED 337 and PHED 375 with a grade ≥2.8 or permission of instructor.
This course is designed to develop skills and progressive methods in teaching games using rhythm for effective K-12 instruction. Activities could include dance, movement experiences and games that help develop motor skills.

PHED 341. ELEMENTARY SCHOOL ACTIVITIES. 2 Credits.
Pre-requisites: HLED 200 with a grade ≥2.8 and concurrent enrollment in PHED 365 or permission of instructor.
This course is designed to develop skills and progressive methods in teaching a wide range of activities appropriate for elementary physical education classes.

PHED 342. LIFELONG LEISURE ACTIVITIES. 2 Credits.
Pre-requisites: PHED 337 and PHED 375 with a grade ≥2.8 or permission of instructor.
This course is designed to develop skills and progressive methods in teaching lifelong leisure activities for effective K-12 instruction. Activities such as road and mountain bicycling, rock climbing, hiking-camping, canoeing, golf, cross-country skiing, orienteering and adventure ropes may be included.

PHED 343. WELLNESS AND FITNESS. 2 Credits.
A physical education course designed to develop skills and progressive methods in teaching wellness and fitness for effective K-12 instruction.

PHED 348. ANATOMICAL/MECHAB KINESIOLOGY. 4 Credits.
A study of the structural components of human movement, as well as the study of the laws of physics as they affect human movement. Special attention is given to the analysis of movement.

PHED 349. ANATOMICAL KINESIOLOGY. 4 Credits.
A study of the structural components of human movement. Special attention is given to the analysis of movement.

PHED 350. PHYSIOLOGICAL KINESIOLOGY. 4 Credits.
A study of the functional components of human movements, especially the variables of flexibility, strength and endurance, the cardiovascular system and ergogenic aids.
PHED 352. MECHANICAL KINESIOLOGY. 4 Credits.
This course is concerned with the mechanical principles applied to athletic movements. The information will provide a biomechanical basis for teaching and coaching physical activities. Sports skills will be analyzed and the underlying mechanical principles governing these movements will be identified. A significant amount of mathematical and quantitative calculations will be performed in this course. A final project is required.

PHED 360. ADVANCED PERSONAL TRAINING. 3 Credits.
Pre-requisites: PHED 334 and MKTG 310 or permission of instructor.
This course is designed to combine the business and marketing aspects of personal training with the applied components of program design, progression and client retention and acquisition.

PHED 365. GENERAL METHODS AND PROCEDURES FOR PHYSICAL EDUCATION. 3 Credits.
Pre-requisites: HLED 200 with a grade ≥2.8 and concurrent enrollment in PHED 341 or permission of instructor.
This course is designed to introduce Health and Fitness majors to the general methods and procedures related to conducting physical education classes in elementary and secondary schools.

PHED 366. INTRODUCTION TO SERVICE, CITIZENSHIP AND COMMUNITY. 3 Credits.
Notes: offered spring quarter only.
Pre-requisites: PHED 265 or permission of instructor.
This course is designed to build upon the activities completed in "Introduction to College Life" that make a successful college career while also thinking more deeply about career choices. Furthermore, this course is designed to provide students with an opportunity to engage in a 15-hour service-learning component working with a population or in a program of interest career wise (i.e., coaching, education, public relations, etc.) that will assist them in examining their strengths through the lens on the project.

PHED 367. ENGAGED LEADERSHIP. 3 Credits.
Notes: this class will only be taught summer quarter.
Pre-requisites: PHED 366 or permission of instructor.
This course is designed to assist students in developing their leadership skills. Students build upon the work they performed at their previous service-learning placement by creating a sustainable, capacity building legacy project with the organization. They develop skills for becoming leaders in their fields of study and in their communities.

PHED 370. SPORT AND CULTURE. 4 Credits.
WINTER This course is the study of the interrelationships between sport and culture, including religion, politics, economics, race, arts and science.

PHED 375. ASSESSMENT IN HEALTH AND FITNESS. 3 Credits.
Pre-requisites: PHED 341 and PHED 365 with a grade ≥2.8, concurrent enrollment in PHED 337 and successful completion of the West B.
This course covers the knowledge of commonly used health and fitness assessments in order to analyze K-12 student learning and development, as well as teaching effectiveness.

PHED 390. HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS. 3 Credits.
Pre-requisites: junior standing and a minimum GPA ≥2.0.
Analysis of educationally sound programs and of procedures and practices in the development of basic health and physical education principles in the elementary school.

PHED 393. WATER SAFETY INSTRUCTOR’S COURSE. 3 Credits.
This course is designed to train students to teach the American Red Cross Learn to Swim Program. Prospective students are advised to take Lifeguard Training (PHED 394). Course is conducted to meet the requirements of the American Red Cross Instructor’s course. Certificates are awarded to those who qualify.

PHED 394. LIFEGUARD TRAINING. 3 Credits.
Pre-requisites: 1. Swim 500 yds. continuously, using each of the following strokes for 100 yds. each: front crawl, breaststroke and sidestroke; remaining 200 yds. student’s choice. No time requirement for this skill; 2. Submerge to a minimum of 7 ft. and retrieve a 10 pound object and return with it to the surface. No time requirement for this skill; 3. Tread water for two minutes using legs only. These skills will be tested the first class session.
A nationally certified course for Eastern Washington University students designed to teach lifeguard candidates the skills and knowledge needed to prevent emergencies and respond to aquatic emergencies (Professionalism, Prevention, Aquatic Rescues, CPR for the Professional Rescuer, First-aid and Spinal Injury Management). This course certification (National American Red Cross Lifeguarding) will prepare and qualify students for aquatic employment throughout the United States.

PHED 395. FIELD PRACTICUM. 2 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Course designed to provide a minimum of 20 hours of practicum school experience in teaching physical education or coaching. The student works in an assistant capacity under a master teacher or coach (Elementary or Secondary Level). Journal procedures are planned and evaluated with the university instructor. At least two on-site visits are made by the instructor.

PHED 396. EXPERIMENTAL COURSE. 1-5 Credits.

PHED 399. DIRECTED STUDY. 1-5 Credits.

PHED 452. ADAPTED PHYSICAL EDUCATION. 4 Credits.
Pre-requisites: junior standing or permission of the instructor.
Laws and skills required of Physical Educators for the inclusion of all students with physical, mental, or social disabilities within a least restrictive environment.

PHED 454. MEASUREMENT AND EVALUATION IN HEALTH AND FITNESS. 3 Credits.
Pre-requisites: EDUC 303 or permission of the instructor.
This course assists in developing an understanding of assessment in health and fitness. The issues addressed include the importance of assessment for health and fitness, the components of assessment currently used in health and fitness, the development of personal beliefs about assessment, the matching of assessments to educational objectives, the evaluation of practice in relation to theory, and the need to reflect on actions to make necessary changes.

PHED 461. SPORTS AND EXERCISE PSYCHOLOGY. 3 Credits.
Pre-requisites: junior.
Designed to provide physical education teachers and coaches with information about motivation, communication, stress management, mental imagery and other topics for enhancing instructor-performance relationships and for stimulating improved sport performances.
PHED 490. SENIOR CAPSTONE: HEALTH AND FITNESS. 4 Credits.
Pre-requisites: HLED 365 and PHED 365 and senior standing or permission of the instructor.
Satisfies: senior capstone university graduation requirement.
This comprehensive course is specific to health and fitness knowledge, skills and practical hands-on teaching experience with variable content. Students will develop outlines and lesson plans and practice generic and specific instruction and management skills necessary for effective teaching.

PHED 495. PROFESSIONAL INTERNSHIP. 1-15 Credits.
Pre-requisites: Permission of the instructor, department chair and college dean. Learning Contract must be on file before the internship commences.
This course is a full-time working experience with youth in a health and/ or fitness promotion program. The experience is under the direction of an health and fitness professional or a person of equivalent training. An approved CEL.

PHED 496. EXPERIMENTAL COURSE. 1-10 Credits.
A course in the developmental stages.

PHED 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshops dealing with specific aspects of physical education are conducted either during the summer or by extension.

PHED 498. SEMINAR. 1-10 Credits.

PHED 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Study of selected problems in the field of physical education.

PHED 500. INTRODUCTION TO GRADUATE STUDIES. 1 Credit.
Notes: graded Pass/No Credit.
The purpose of this class is to introduce students to Eastern Washington University (EWU) and the Physical Education, Health and Recreation (PEHR) graduate school program.

PHED 505. CURRENT ISSUES AND ETHICS. 3 Credits.
This course is designed to prepare graduate students to make decisions based on the professional ethics and standards of practice.

PHED 506. SOCIO-CULTURAL STUDIES IN PHYSICAL ACTIVITY. 3 Credits.
An examination of the nature and place of sport in American life and an analysis of the interrelationship between sport and institutions, social systems and culture.

PHED 507. ADMINISTRATION AND MANAGEMENT IN HEALTH AND PHYSICAL EDUCATION. 3 Credits.
Planning, financing, designing, managing, and administering health, physical education, recreation and athletic facilities and programs.

PHED 508. PSYCHOLOGICAL BEHAVIOR IN SPORT. 3 Credits.
Pre-requisites: general psychology course.
An examination of individuals participating in play, games, sports, and their competitive behavior.

PHED 509. ADVANCED PEADAGOGY IN PHYSICAL EDUCATION. 3 Credits.
Pre-requisites: graduate standing.
A course detailing methods and procedures to teaching Physical Education classes and coaching athletic teams at all educational levels. The strong focus on advanced technology and methodology emphasizes that proper teaching/coaching procedures and techniques be employed in the instructional process, while allowing varying and personal teaching styles and attitudes to surface.

PHED 510. ADVANCED MOTOR CONTROL AND LEARNING. 3 Credits.
Provides the student with a comprehensive understanding of how physical movements are controlled and learned. Such an understanding is of practical importance to teachers and coaches of physical performers.

PHED 511. APPLIED SPORT PSYCHOLOGY. 3 Credits.
Pre-requisites: PHED 508.
Provides comprehensive overview of applied educational strategies and techniques in sport and exercise psychology. Techniques such as imager, goal setting, self-talk, PRT and autogenies will be discussed as a means to achieve a prospective level of motivation, emotional control, self-confidence and concentration.

PHED 512. MOTIVATION IN SPORT AND EXERCISE. 3 Credits.
This class is designed to assist physical educators, coaches, recreation specialists, and others interested in sport motivation. Students will be introduced to a broad range of theoretical and applied motivational questions, including investigation of major motivational theories and paradigms, identification of primary motivational antecedents and consequences, as well as discussions on important measurement issues comparing the effectiveness of the most influential intervention strategies for enhancing motivation, and applying the motivational theory to answering critical applied motivational questions in sport and exercise.

PHED 517. SURVEY RESEARCH. 3 Credits.
The primary purpose of this course is to provide the student with a framework for the systematic evaluation of Physical Education, Exercise Science, and Recreation programs, services, facilities, and administrative functions as well as a basic understanding of the creation, implementation, and descriptive statistical analysis of survey research.

PHED 518. REVIEW OF LITERATURE. 3 Credits.
Pre-requisites: PHED 505 or permission of instructor.
Review of research literature to assist the student in identifying areas of research in their discipline.

PHED 519. STATISTICS IN PHYSICAL EDUCATION. 3 Credits.
Pre-requisites: grades ≥3.0 in any of the following upper-division courses (or equivalent): BADM 503, BADM 561, CSBS 320, DSCI 346; DSCI 449 MATH 380, MATH 485, MATH 486, PHYS 514, PSYC 522, PSYC 532. Application, analysis and manipulation of datasets drawn from research in physical education using SPSS and SAS.

PHED 520. RESEARCH METHODS IN PHYSICAL EDUCATION. 3 Credits.
Pre-requisites: PHED 518 and PHED 519 or permission of the instructor.
Study of the methods and techniques of research in physical education; practice in application to problems of current interest.

PHED 521. HISTORY AND PHILOSOPHY IN SPORT AND PHYSICAL ACTIVITY. 3 Credits.
This course is an examination of historical and philosophical issues pertaining to sport and physical activity as it relates to global culture. Topics will include ethics, sportsmanship, gamesmanship, play and cultural influences of sport and physical activity from a historical and philosophical framework.

PHED 522. RISK MANAGEMENT: SPORT AND SCHOOL LAW. 3 Credits.
This course is a study of legal issues as they relate to athletic administrators, coaches, teachers and sport management personnel in the sporting realm. Students will examine and discuss current legal standards, issues and risk management theories utilizing case law studies, which will provide an understanding of the responsibilities and working knowledge of the law.
PHED 523. PROGRAM PROMOTION AND ADVOCACY. 3 Credits.
This course is designed to assist students in developing or enhancing their promotional efforts in advocating for their selected program. If you are currently engaged in implementing promotional activities, this class will provide you with an opportunity to enhance your efforts. If you need to start a promotional project, this class will kick-start you.

PHED 524. SPORTS MARKETING. 3 Credits.
This course is a study of sports marketing theories from experience and research, which provides an examination of marketing strategies, plan development, sporting organizational needs and goals, in both the public and private sector of sports business. Students will also reflect upon the influence of licenses, sponsorships, promotions, advertising, broadcasting and sales in the sporting world.

PHED 525. FACILITIES PLANNING, OPERATIONS AND MANAGEMENT. 3 Credits.
This course is designed to provide students with a framework for understanding various aspects of facilities in sport and recreation including: planning, management, design, scheduling, and operations.

PHED 550. ADVANCED BIOMECHANICS. 3 Credits.
An examination of the mechanical aspects of human movement with an emphasis placed on descriptive and causal analysis. Students will perform laboratory projects using force plates, digitization of movement, and electromyography. Undergraduate experience in physics or biomechanics is expected to enroll in this course.

PHED 554. BEHAVIOR CHANGE-THEORY AND PRACTICE. 3 Credits.
This course will provide an overview of various models and theories of behavior change as they relate to wellness. Emphasis will be placed on applying theoretical concepts to facilitate the behavior change process among individuals and groups using a positive psychology approach.

PHED 555. ADVANCED PHYSIOLOGY OF EXERCISE. 3 Credits.
The physiological effects of muscular exercise, physical conditioning, and training along with the significance of these effects on health and physical performance will be discussed. Students are expected to possess a background in undergraduate anatomy and physiology as well as a course in exercise physiology to enroll in this course. Check with your advisor if you are unsure about your preparation for this course.

PHED 556. ADVANCED CLINICAL EXERCISE PHYSIOLOGY. 3 Credits.
The focus of this course will follow the requirements for the American College of Sports Medicine (ACSM) Registered Clinical Exercise Physiologist (RCEP) certification. The content will include how exercise impacts a variety of clinical conditions including cardiovascular, pulmonary, metabolic, orthopedic, musculoskeletal, neuromuscular and immunologic/hematologic systems.

PHED 557. TRAINING, PLANNING AND PERIODIZATION. 3 Credits.
The content of this course will cover classical and modern theories of periodization as a means of maximizing performance in sport. Planning sports training in terms of the physical, technical, tactical, psychological, and theoretical domains will be discussed in depth from the career level to the individual training lesson.

PHED 599. INDEPENDENT STUDY. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

PHED 600. THESIS. 1-9 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

PHED 601. RESEARCH REPORT. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

PHED 695. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
The purpose of this course is to gain professional experience in the student's chosen career path under the guidance of a professional currently employed in the field. A wide variety of internship experiences are available including teaching, administration, marketing, research and professional writing.

PHED 696. COLLEGE TEACHING INTERNSHIP. 1-15 Credits.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and instructional aids, conferences with students, experience in classroom instruction, completion of a departmental project and student course evaluation.

Physical Therapy (PHTH)

PHTH 499. INDEPENDENT STUDY. 1-5 Credits.

PHTH 501. CLINICAL ANATOMY/PHYSIOLOGY I. 5 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course is the first of three focusing on the structure of the human body and its related function. This course is designed to provide the student with an opportunity to learn anatomical structures and the functional relationships of the structures to each other. The major emphasis of this course will be on the structures contained in the upper and lower extremities. Clinical correlations will be presented relating the anatomical structures discussed to the practice of Physical Therapy. The course is heavily weighted toward laboratory dissection. The physiology of muscle, nerve and bone will be discussed in relation to the function of the anatomical structures studied during the course.

PHTH 502. CLINICAL ANATOMY/PHYSIOLOGY II. 3 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course is the second of three focusing on the structure of the human body and its related function. This course is designed to provide the student with an opportunity to learn anatomical structure and the functional relationship of the structures to each other. The major emphasis of this course will be on the structures contained in the spine. Clinical correlations will be presented relating the anatomical structures discussed to the practice of Physical Therapy. The course is heavily weighted toward laboratory dissection. Physiological function of cells and cellular components of the nervous system emphasizing integrative neurophysiology, sensory physiology and the autonomic nervous system will be discussed.
PHTH 503. CLIN ANATOMY/PHYSIOLOGY III. 3 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This course is the third of three focusing on the structure of the human body and its related function. This course is designed to provide the student with an opportunity to learn anatomical structures and the functional relationships of the structures to each other. The major emphasis of this course will be structures contained in the head and neck, the thoracic cavity, the abdomen and the pelvis. The physiology of the special senses of taste, smell, sight, and hearing will be discussed. The physiology of the cardiovascular system including the heart and circulatory system, of the lungs and the pulmonary system, and of the lungs and the pulmonary systems, and of the gastrointestinal system will be discussed in relation to the function of the anatomical structures studied during the course.

PHTH 533. FUNCTIONAL ANATOMY I. 5 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This is the first of two courses which focus on the study of human motion with emphasis on biomechanics and functional anatomy and their relationship to the fundamental understanding of exercise concepts and musculoskeletal evaluation with application to the practice of Physical Therapy. Studies will include the osteokinematics, arthrokinematics and assessment of accessory joint movements of the upper and lower extremities. Musculoskeletal evaluation will focus on manual muscle testing, goniometry and surface anatomy to include palpation.

PHTH 534. FUNCTIONAL ANATOMY II. 3 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This is the second of two courses which focus on the study of human motion with emphasis on biomechanics and functional anatomy and their relationship to the fundamental understanding of exercise concepts and musculoskeletal evaluation with application to musculoskeletal dysfunction. Studies will include the osteokinematics, arthrokinematics and assessment of accessory joint movements of the spine and temporomandibular joint. Musculoskeletal evaluation of the spine and head will include manual muscle testing, goniometry, palpation of surface anatomy structures, and posture with reference to the whole body.

PHTH 536. PT PRACTICE SEMINAR I. 2 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This course examines the professional role of the physical therapist, the American Physical Therapy Association, the history of the profession, Standards of Practice, the Code of Ethics, licensure issues, current issues facing the physical therapy practitioner and the law related to physical therapy.

PHTH 538. THERAPEUTIC EXERCISE AND INTERVENTIONS. 4 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This course includes concepts and practice with therapeutic exercise and interventions, including passive, active assistive, active and resistive range of motion, strengthening programs, stretching exercises, mobilization techniques for the extremity joints, relaxation exercises and gait training. Students will develop and write home programs, design exercise programs for therapeutic purposes, and critically analyze interventions.

PHTH 540. PRIN EVIDENCE-BASED PRACTICE I. 1 Credit.  
**Notes:** graded Pass/No Credit.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This is the first of three courses designed to introduce the student to evidence-based practice and the process of critical inquiry. These courses will prepare the student to become a knowledgeable consumer of research and the professional literature as it relates to the practice of physical therapy. In this course the student will develop competence in identifying, locating, retrieving, understanding and applying the principles of research to the practice of physical therapy.

PHTH 541. PRINCIPLES OF EVIDENCE-BASED PRACTICE II. 2 Credits.  
**Notes:** graded Pass/No Credit.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This is the second of three courses designed to introduce the student to evidence-based practice and the process of critical inquiry. These courses will prepare the student to become a knowledgeable consumer of research and the professional literature as it relates to the practice of physical therapy. In this course the student will develop an understanding of research design, research methods and statistical applications related to critical inquiry in physical therapy.

PHTH 542. PRINCIPLES OF EVIDENCE-BASED PRACT III. 2 Credits.  
**Notes:** graded Pass/No Credit.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This is the third of three courses designed to introduce the student to evidence-based practice and the process of critical inquiry. These courses will prepare the student to become a knowledgeable consumer of research and the professional literature as it relates to the practice of physical therapy. In this course the student will develop an understanding of outcome measures used in physical therapy to document effectiveness and efficacy of clinical practice. Students will develop oral presentation skill through the preparation and presentation of a group project on a specific outcome measure.

PHTH 546. INTEGUMENTARY THERAPEUTICS. 4 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
This course provides the student with classroom discussion and laboratory experiences on the physiological bases for and clinical applications for physical therapy interventions applied to the integumentary system. These include massage, superficial and deep heat, ultraviolet radiation, cryotherapy, aquatic therapy, hydrotherapy, and basic wound management. Foundational client management skills such as positioning, draping, transfers, universal precautions and examination of vital signs are also included.

PHTH 547. PROFESSIONAL DEVELP SEMINAR. 2 Credits.  
**Pre-requisites:** all courses in physical therapy are restricted to students accepted into the program. 
The purpose of this seminar is to provide students with opportunities to explore the responsibilities and behaviors expected of the physical therapist and to develop their skills in professional development. Included are presentations by master clinicians, and group discussions with experts to explore issues of professional development.
PHTH 553. EDUCATIONAL ASPECTS OF PT. 2 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course will introduce the student to the role of the physical therapist as an educator. The course includes theories of teaching and learning, the importance of learning styles, behavioral objectives, evaluation of teaching, motivation and compliance, and adult learners. The differences in educating multicultural patient populations will be discussed. Clinical teaching will be done in role-playing situations. Students will prepare and present a teaching unit to a community group.

PHTH 554. DIAGNOSIS IN PHYSICAL THERAPY. 4 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course will introduce students to screening for referral in physical therapy practice, with particular emphasis on the patient interview process and using health history as a screening tool. The course will provide an overview of review of systems and screening for disease to facilitate the students’ knowledge of signs and symptoms that mimic neuromusculoskeletal conditions, and warrant referral to a primary care provider. Fundamentals of musculoskeletal imaging will be introduced relative to the screening process.

PHTH 561. CLINICAL EDUCATION SEMINAR I. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the first of six clinical education seminars. The purpose of these seminars is to prepare students for the clinical internships. Included in Clinical Education Seminar I are an introduction to the clinical education program, procedures for internship site selection, introduction to the generic abilities and education in the Occupation Health and Safety Administration requirements.

PHTH 562. CLINICAL EDUCATION SEMINAR II. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the second of six clinical education seminars. The purpose of these seminars is to prepare students for the clinical internships. Included in Clinical Education Seminar II are discussions on clinical education, the generic abilities and AIDS education.

PHTH 563. CLINICAL EDUCATION SEMINAR III. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the third of six clinical education seminars. The purpose of these seminars is to prepare students for the clinical internships. Included in Clinical Education Seminar III are discussions of the role of the clinical instructor, characteristics of an effective clinical instructor and an effective student, the clinical performance instrument and cardiopulmonary resuscitation.

PHTH 569. HEALTH CARE SYSTEMS I. 2 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course is the first of two courses that address health care delivery issues. This course explores and compares models of health care systems. Included are the issues of managed care, multiprovider systems, marketing, availability and accessibility of health care.

PHTH 571. NEUROSCIENCE. 5 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
The structure and function of the central nervous system are presented in this foundational course in physical therapy. The relationships between the somatosensory system, spinal cord and brainstem reflexes, and motor systems are presented. Students will also learn how the CNS develops, and the consequences of malformation of the CNS during development. Clinical signs and symptoms of specific CNS pathology will be presented, and related to patients with movement disorders that receive physical therapy services.

PHTH 572. APPLIED NEUROSCIENCE. 4 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course provides the student with the opportunity to apply principles of neuroscience, anatomy, and biomechanics to the control of sensation, posture and balance, motor control in disordered systems, and motor learning. Students will learn to perform clinical sensory, reflex, and cranial examinations, examinations of posture, balance, spasticity and rigidity. Students will also learn to apply selected physical therapy interventions directed at modulation of the sensory and motor systems.

PHTH 576. PHARMACOLOGY. 2 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
The course provides a basic knowledge of pharmacology for the physical therapist in order to incorporate the effects of drugs into an appropriate design and implementation of the patient care process.

PHTH 581. CLINICAL INTERNSHIP I. 5 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
Clinical Internship I consists of a full time educational experience in a clinical setting for 5 (five) weeks during summer quarter of the first year of the DPT Program. The primary purposes are to gain experience with examination, evaluation and intervention skills learned in the first academic year, practice and demonstrate developing level behavioral criteria in the generic abilities and interact with patients and health care professionals in the clinical environment.

PHTH 596. EXPERIMENTAL COURSE. 1-8 Credits.

PHTH 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-8 Credits.
Workshop credit cannot be used to fulfill degree requirements.

PHTH 599. INDEPENDENT STUDY. 1-8 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: permission of the instructor and department chair.
Independent Study.

PHTH 616. MUSCULOSKELETAL SYSTEMS I. 5 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This course is the first of three on examination, evaluation, and intervention of the musculoskeletal system. Content includes, but is not limited to, fundamental orthopedic principles, scanning examinations; diagnosis and intervention of clients with musculoskeletal conditions of the cervical spine, thoracic spine/rib and shoulder; and musculoskeletal imaging, fractures, and bone pathology. Emphasis is on differential diagnosis, clinical decision making, and interventions such as region specific manual therapy (e.g., mobilization, manipulation, muscle energy), therapeutic exercise, therapeutic modalities and orthotics.
PHTH 617. MUSCULOSKELETAL SYSTEMS II. 5 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course is the second of three on examination, evaluation and intervention of the musculoskeletal system. Content includes, but is not limited to, scanning examinations; diagnosis and intervention of clients with musculoskeletal conditions of the elbow, wrist/hand, lumbar sacral spine, hip and knee; and musculoskeletal imaging, fractures and bone pathology. Emphasis is on differential diagnosis, clinical decision making and interventions such as region specific manual therapy (e.g., mobilization, manipulation, muscle energy), therapeutic exercise, therapeutic modalities and orthotics.

PHTH 618. MUSCULOSKELETAL SYSTEMS III. 4 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course is the third of three on examination, evaluation and intervention of the musculoskeletal system. Content includes, but is not limited to, diagnosis and intervention of clients with musculoskeletal conditions of the ankle/foot, acromial, craniovertebral region and temporomandibular regions; musculoskeletal imaging, fractures and bone pathology; special topics in spinal manipulation. Emphasis is on differential diagnosis, clinical decision making and interventions such as region specific manual therapy (e.g., mobilization, manipulation, muscle energy), therapeutic exercise, therapeutic modalities and orthotics.

PHTH 626. NEUROMUSCULAR SYSTEMS I. 5 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course utilizes a patient-centered approach to teach students patient management skills for people with neurological medical diagnoses. The course focuses on the physical therapy examination, evaluation, diagnosis, prognosis and intervention processes for patients across the continuum of care, with a focus on the inpatient rehabilitation setting. Approaches for patients with traumatic brain injury, cerebrovascular accident, spinal cord injury, and degenerative diseases, tumors or infections of the central nervous system will be considered.

PHTH 627. NEUROMUSCULAR SYSTEMS II. 3 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course utilizes a patient-centered approach to teach students patient management skills for people with neurological medical diagnoses. The course will focus on the physical therapy examination, evaluation, diagnosis, prognosis and intervention processes for patients across the continuum of care, with a focus on higher levels of medical acuity (Neuro Intensive Care Unit) and long term acute care settings. Approaches for patients with complex medical diagnoses, safe intervention progression, handling complications and effects of functional limitations on other systems, and consideration of technology and specific equipment needs will be considered.

PHTH 628. NEUROMUSCULAR SYSTEMS III. 4 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course utilizes a client-centered (case study) approach to provide the student with the knowledge and skills to manage a pediatric client with a disability. Theories of motor development, motor milestones and standardized assessments will be studied to provide a basis for understanding movement dysfunction in children with disabilities.

PHTH 634. EXERCISE PHYSIOLOGY. 3 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
Study of the acute and chronic effects of exercise and work on the human body with emphasis on the processes that control and regulate important properties of living systems. Topics including the fundamentals of human energy, nutrition, measurement of human energy expenditure, the cardiovascular system, the pulmonary system, the neuromuscular system, hormone factors affecting physiological function, body composition and the effects of aging will be studied. The application of exercise for fitness and wellness in the practice of Physical Therapy will be emphasized.

PHTH 635. CARDIOPULMONARY SYSTEMS. 4 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course utilizes a client-centered (case study) approach to provide the student with the knowledge and skills to enable him/her to manage a client with cardiac and/or pulmonary system pathology. This course includes but is not limited to the care of clients with angina pectoris, coronary artery disease, congestive heart failure, mitral valve stenosis, myocardial infarction, post-coronary artery bypass graft surgery, heart and heart/lung transplantation, chronic obstructive pulmonary disease, bronchitis, cystic fibrosis, asthma, restrictive lung disease, pneumonia, atelectasis, pneumothorax, hemorrhax, and pulmonary embolus.

PHTH 636. PT PRACTICE SEMINAR II. 2 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
The role of physical therapy in health care will be discussed. Speakers will present information on health care delivery, contrasting urban and rural areas. Community agencies, clinical decision making/ethics, and the role of other health care professionals will be introduced. Leadership/Advocacy issues will be addressed as they relate to these topic areas.

PHTH 639. TOPICS IN PHYSICAL THERAPY. 3 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
This course will provide the student with opportunities to explore specific topic areas in depth using the four practice patterns described in the Guide to Physical Therapist Practice: musculoskeletal, neuromuscular, cardiopulmonary, and integumentary patterns. Specific course content will be offered in a variety of practice arenas to provide the participant with an opportunity to increase knowledge and skills in physical therapy practice. The behaviors and attitudes expected at the doctoral level will also be addressed.

PHTH 641. MULTIPLE SYSTEMS. 2 Credits.  
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.  
The course applies an analytical approach to the treatment of patients/clients with multiple systems involvement and requires integration of aspects of learning from previous courses. Emphasis is placed on comprehensive case study management of clients with psychiatric disorders, immunologic disorders, cancer, eating disorders, women’s health problems, complex medical problems, metabolic disorders, hematologic disorders, and medical emergencies. The topic of wellness is also explored.
PHTH 646. INTEGUMENTARY SYSTEMS. 3 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This patient-centered course provides the student with the knowledge and skills to examine, evaluate, provide interventions and evaluate outcomes for patients/clients with peripheral vascular disease, or integumentary system (wound) disorders or complications, and patients with amputations secondary to diabetes, peripheral vascular disease, complications from wounds, or other etiologies who require rehabilitation including prosthetic evaluation and training.

PHTH 661. CLINICAL EDUCATION SEMINAR IV. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the fourth of six clinical education seminars. The purpose of these seminars is to prepare students for the clinical internships. Included in Clinical Education Seminar IV are discussions on the first clinical internship, the generic abilities, student responsibilities, communication, professional behavior and internship expectations.

PHTH 662. CLINICAL EDUCATION SEMINAR V. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the fifth of six clinical education seminars. The purpose of these seminars is to prepare the students for the clinical internships. Included in Clinical Education Seminar V are active learning opportunities with physical therapist assistant students, chart review, discussion on professionalism and goal writing.

PHTH 663. CLINICAL EDUCATION SEMINAR VI. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
This is the sixth of six clinical education seminars. The purpose of these seminars is to prepare students for the clinical internships. Included in Clinical Education Seminar VI are the selections for clinical internships, discussion of expectations and theyllabi for the ten-week internships, discussions of legal and ethical issues that may occur during clinical internships and participation in a team conference on a case-based patient.

PHTH 665. PHYSICAL THERAPY ADMIN. 3 Credits.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
Upon completion of this course, the student will be able to develop, administer and manage a physical therapy practice, utilizing the human and material resources available, for effective delivery of services.

PHTH 669. HEALTH CARE SYSTEMS II. 3 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
The student must successfully complete all course work each quarter to progress to the next quarter in the curriculum. This is the second of two courses related to the delivery of health care services, specifically physical therapy services. This course focuses on professional development, financial, legal and humanitarian issues, and service as a professional expectation.
PHTH 780. CLINICAL INTERNSHIP II. 10 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
Clinical Internship II consists of a full-time educational experience in a clinical setting for 10 (ten) weeks. The primary purposes are to gain experience in an acute care, rehabilitation or specialty setting, demonstrate progress toward entry-level behavioral criteria in the generic abilities and clinically apply skills and knowledge attained in the first two years of the program. Upon completion of the internship, the student will demonstrate performance at a level of professional clinical competency consistent with the expectations of a physical therapist in a similar practice setting (acute care, rehabilitation or specialty setting).

PHTH 781. CLINICAL INTERNSHIP III. 10 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
Clinical Internship III consists of a full-time educational experience in a clinical setting for 10 (ten) weeks. The primary purposes are to gain experience in an acute care, rehabilitation or specialty setting, demonstrate progress toward entry-level behavioral criteria in the generic abilities and clinically apply skills and knowledge attained in the first two years of the program. Upon completion of the internship, the student will demonstrate performance at a level of professional clinical competency consistent with the expectations of a physical therapist in a similar practice setting (acute care, rehabilitation or specialty setting).

PHTH 782. CLINICAL INTERNSHIP IV. 10 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: all courses in physical therapy are restricted to students accepted into the program.
Clinical Internship IV consists of a full-time educational experience in a clinical setting for 10 (ten) weeks. The primary purposes are to gain experience in an acute care, rehabilitation or specialty setting, demonstrate entry-level behavioral criteria in the generic abilities and clinically apply skills and knowledge attained in the first two years of the program. Upon completion of the internship, the student will demonstrate performance at a level of professional clinical competency consistent with the expectations of a physical therapist in a similar practice setting (acute care, rehabilitation or specialty setting).

Physics (PHYS)

PHYS 100. PHYSICAL SCIENCE I. 5 Credits.
Pre-requisites: pre-university basic skills in mathematics.
Satisfies: a GECR for natural sciences, physics.
Course covers the elementary aspects of physical science and astronomy. It operates in an informal laboratory mode with ample opportunity for discussion and individual assistance. No mathematics beyond basic arithmetic is used.

PHYS 115. INVESTIGATING PHYSICAL SCIENCE. 5 Credits.
Pre-requisites: MATH 211.
Satisfies: a GECR for natural sciences, physics.
For students planning to teach elementary school. Includes inquiry based physical science investigations that support science instruction outlined in the National Science Education Standards and Washington Essential Academic Learning Requirements.

PHYS 121. DESCRIPTIVE ASTRONOMY. 5 Credits.
Pre-requisites: pre-university basic skills in mathematics.
Satisfies: a GECR for natural sciences, physics.
This course follows the development of astronomy from the earth-centered model of the early Greeks through the sun-centered model of Copernicus to the modern dynamic model of the universe incorporating the known laws of physics in its description. Topics covered in this development include a study of the solar system and a brief description of the physical laws used in astronomy. Additional topics such as distances, motions properties and evolution of stars lead to a study of galaxies, the structure of the universe and to modern cosmological models. Laboratory activities include naked-eye observation and measurement, planetarium sessions, Celestial Globe activities, computer simulations, as well as experiments in optics, spectra and the use of telescopes.

PHYS 131. INTRODUCTORY PHYSICS I. 4 Credits.
Notes: Each course consists of 4 credits of lecture and 1 credit of required instrumentation laboratory.
Pre-requisites: MATH 142, concurrent enrollment in PHYS 161 for PHYS 131 is recommended, PHYS 131 for PHYS 132, and PHYS 132 for PHYS 133.
Satisfies: The completion of PHYS 131, PHYS 161 satisfies the GECR for natural sciences, physics; counts as one course. The completion of PHYS 131, PHYS 132, PHYS 161, plus any one of the following: PHYS 162, PHYS 163, PHYS 164 satisfies the GECR for natural sciences, physics; counts as two courses.
These courses are designed primarily for science students with mathematical preparation through algebra and trigonometry. No calculus is used. The topics covered are PHYS 131—kinematics, dynamics, conservation of momentum and energy and simple harmonic motion; PHYS 132—sound/waves, heat/thermo-dynamics, geometric optics; PHYS 133—electricity and magnetism, physical optics, modern physics.

PHYS 132. INTRODUCTORY PHYSICS II. 4 Credits.
Notes: Each course consists of 4 credits of lecture and 1 credit of required instrumentation laboratory.
Pre-requisites: MATH 142, concurrent enrollment in PHYS 161 for PHYS 131 is recommended, PHYS 131 for PHYS 132, and PHYS 132 for PHYS 133.
Satisfies: The completion of PHYS 131, PHYS 161 satisfies the GECR for natural sciences, physics; counts as one course. The completion of PHYS 131, PHYS 132, PHYS 161, plus any one of the following: PHYS 162, PHYS 163, PHYS 164 satisfies the GECR for natural sciences, physics; counts as two courses.
These courses are designed primarily for science students with mathematical preparation through algebra and trigonometry. No calculus is used. The topics covered are PHYS 131—kinematics, dynamics, conservation of momentum and energy and simple harmonic motion; PHYS 132—sound/waves, heat/thermo-dynamics, geometric optics; PHYS 133—electricity and magnetism, physical optics, modern physics.
PHYS 133. INTRODUCTORY PHYSICS III. 4 Credits.

Notes: Each course consists of 4 credits of lecture and 1 credit of required instrumentation laboratory.

Pre-requisites: MATH 142, concurrent enrollment in PHYS 161 for PHYS 131 is recommended; PHYS 131 for PHYS 132; and PHYS 132 for PHYS 133.

Satisfies: The completion of PHYS 131, PHYS 161 satisfies the GECR for natural sciences, physics; counts as one course. The completion of PHYS 131, PHYS 132, PHYS 161, plus any one of the following: PHYS 162, PHYS 163, PHYS 164 satisfies the GECR for natural sciences, physics; counts as two courses.

These courses are designed primarily for science students with mathematical preparation through algebra and trigonometry. No calculus is used. The topics covered are PHYS 131—kinematics, dynamics, conservation of momentum and energy and simple harmonic motion; PHYS 132—sound/waves, heat/thermo-dynamics, geometric optics; PHYS 133—electricity and magnetism, physical optics, modern physics.

PHYS 151. GENERAL PHYSICS I. 4 Credits.

Notes: the completion of PHYS 151, PHYS 161 satisfies the GECR for natural sciences, physics; counts as one course.

Pre-requisites: Concurrent enrollment in MATH 161. Concurrent enrollment in PHYS 161 is recommended.

Part of a four-quarter beginning sequence (PHYS 151, PHYS 152, PHYS 153, PHYS 221) suitable for all students of natural science and mathematics. Topics covered include: one and multi-dimensional kinematics and dynamics, energy and momentum and oscillations.

PHYS 152. GENERAL PHYSICS II. 4 Credits.

Notes: the completion of PHYS 151, PHYS 152, PHYS 161, plus any one of the following: PHYS 162, PHYS 163, PHYS 164 satisfies the GECR for natural sciences, physics; counts as two courses.

Pre-requisites: PHYS 151 and concurrent enrollment in MATH 162.

Part of a four-quarter beginning sequence (PHYS 151, PHYS 152, PHYS 153, PHYS 221) suitable for all students of natural science and mathematics. Topics covered include: rotational motion, gravity, fluids, waves and thermodynamics.

PHYS 153. GENERAL PHYSICS III. 4 Credits.

Pre-requisites: PHYS 152 and concurrent enrollment in MATH 163.

Part of a four-quarter beginning sequence (PHYS 151, PHYS 152, PHYS 153, PHYS 221) suitable for all students of natural science and mathematics. Topics covered include: electrostatics, direct current circuit theory, magnetism and geometric optics.

PHYS 161. MECHANICS LABORATORY. 1 Credit.

A laboratory course in mechanics, including one-dimensional motion, motion in a plane, dynamics, conservation of energy and momentum, and oscillating motion.

PHYS 162. HEAT AND OPTICS LABORATORY. 1 Credit.

A laboratory course suitable for use with either Introductory and General Physics. Experiments in optics include reflection and refraction, lenses and mirrors, microscopes and telescopes, optical spectra and microwave optics. Experiments in heat include heat and temperature, thermal expansion, mechanical and electrical equivalents of heat and a study of gas laws.

PHYS 163. INSTRUMENTATION LAB I. 1 Credit.

This laboratory emphasizes the use of electronic instruments in the measurement of physical quantities.

PHYS 164. INSTRUMENTATION LAB II. 1 Credit.

This laboratory emphasizes the use of electronic instruments in the measurement of physical quantities.
PHYS 401. ELECTROMAGNETISM I. 4 Credits.
Pre-requisites: MATH 163, PHYS 221.
A study of electric forces, fields, potentials, dielectric behavior, currents, magnetic forces, and electromagnetic waves.

PHYS 402. ELECTROMAGNETISM II. 4 Credits.
Pre-requisites: MATH 163, PHYS 221.
A study of electric forces, fields, potentials, dielectric behavior, currents, magnetic forces, and electromagnetic waves.

PHYS 403. ELECTROMAGNETISM III. 4 Credits.
Pre-requisites: MATH 163, PHYS 221.
A study of electric forces, fields, potentials, dielectric behavior, currents, magnetic forces, and electromagnetic waves.

PHYS 411. CLASSICAL THERMODYNAMICS. 3 Credits.
Pre-requisites: PHYS 153, MATH 163.
Introduction to elementary thermodynamics; first, second and third laws of thermodynamics; ideal gases; and kinetic theory.

PHYS 421. COMPUTATIONAL PHYSICS. 4 Credits.
Pre-requisites: MATH 163, PHYS 221.
Introduction to programming to solve physics problems in data analysis, theory, and statistics that are not amenable to analytical solution. Covers model fitting, computational statistical techniques, nonlinear system dynamics, iterative solutions and basic simulations.

PHYS 424. ASTROPHYSICS. 4 Credits.
Pre-requisites: MATH 163, PHYS 153.
Application of the physical principles of mechanics, fluid dynamics, thermodynamics, electromagnetism, optics and relativity within the astronomical contexts of observational techniques/instrumentation, planetary science, stellar structure/evolution, galactic/extragalactic structure and cosmology.

PHYS 431. SOLID STATE DEVICES PHYSICS. 3 Credits.
Pre-requisites: MATH 163, PHYS 221.
A course dealing with crystalline semiconductors, carrier transport generation and recombination, p-n junctions, metal-semiconductor junctions, microwave devices, photonic devices like solar cells and semiconductor lasers.

PHYS 441. SOLID STATE PHYSICS. 3 Credits.
Pre-requisites: PHYS 431.
A course dealing with the quantum properties of electrons in solids, mechanisms of electron and hole conduction, and the theory of operation of solid state devices.

PHYS 451. OPTICS. 4 Credits.
Pre-requisites: MATH 163, PHYS 153.
A study of the nature of light and its applications, with emphasis on physical optics and the electromagnetic wave theory of light. Topics selected from modern optics include Fourier optics, basics of coherence theory, and aspects of the quantum nature of light.

PHYS 461. NUCLEAR PHYSICS. 3 Credits.
Pre-requisites: PHYS 381.
A continuation of PHYS 381 which deals with properties of the nucleus, laws of radioactivity, nature of radiation, nuclear, X- and gamma rays, and nuclear reactions.

PHYS 495. INTERNSHIP. 1-5 Credits.
Prerequisite: permission of the instructor, department chair and college dean.

PLANNING (PLAN)

PLAN 100. THE CITY. 5 Credits.
Surveys the nature of transformations of cities during the course of their evolution from preindustrial to industrial to the postindustrial cities of today, and explains the factors that have contributed to these transformations.

PLAN 201. INTRODUCTION TO URBAN AND REGIONAL PLANNING. 5 Credits.
This lecture/discussion course uses a historical context to introduce the concepts, theories and applications of urban and regional planning.

PLAN 261. COMMUNITY DEVELOPMENT. 5 Credits.
Applied studies of the process of community development emphasizing the interactive roles of citizens, community officials and planners.

PLAN 271. PROFESSIONAL PRACTICE. 2 Credits.
This course provides new majors a general overview of the practice of planning through discussion with planning practitioners and guided student activities.

PLAN 296. EXPERIMENTAL COURSE. 1-10 Credits.

PLAN 300. PLANNING PRESENT TECHNIQUES. 5 Credits.
Introduces the written, oral and graphic presentation techniques common to the planning profession.

PLAN 301. PLANNING METHODS AND TECHNIQUES. 5 Credits.
Pre-requisites: PLAN 201.
This course develops specific skills and techniques in the collection, analysis and interpretation of data commonly used in planning.

PLAN 302. CENSUS AND PLANNING. 2 Credits.
This course introduces students to census data and their application to planning research and provides background for demographic and other data useful in describing urban places.

PLAN 375. TRIBAL PLANNING. 3 Credits.
Presents an overview of Native American community and culture, the history of tribal government and its contemporary structures, and the applications of planning techniques to Native American communities. Emphasizes identifying appropriate planning techniques which promote tribal self-determination and preserve tribal sovereignty.
PLAN 395. INTERNSHIP. 1-10 Credits.

PLAN 396. EXPERIMENTAL COURSE. 1-10 Credits.

PLAN 398. SEMINAR. 1-5 Credits.

PLAN 402. PLANNING IMPLEMENTATION. 5 Credits.
Pre-requisites: PLAN 201.
A survey of zoning, subdivision regulations and other tools used to implement public plans and policies. Introduces students to the administrative practices associated with the planning implementation process.

PLAN 403. COMMUNITY FACILITIES PLANNING. 5 Credits.
An examination of the issues and techniques associated with planning, budgeting and programming for community infrastructure such as sewer and water systems.

PLAN 406. PLANNING LAW AND LEGISLATION. 5 Credits.
Pre-requisites: PLAN 201 or permission of instructor.
Reviews the constitutional, statutory and case law governing public planning and regulatory activities, with specific emphasis on the legal aspects of regulating private lands to further public objectives and Washington state law.

PLAN 421. TRIBAL TRANSPORTATION PLANNING. 3 Credits.
This course introduces planning students and tribal members to the issues of transportation planning on Native American reservations.

PLAN 422. TRIBAL ECONOMIC DEVELOPMENT. 3 Credits.
This course provides an understanding of tribal economic development for tribal governments and how it is carried out by planners, economic development specialists and tribal leaders.

PLAN 424. STRATEGIC PLANNING. 4 Credits.
Pre-requisites: junior standing.
This course presents an overview of strategic planning process components in public, private and government organizations. Components explored include mission, vision and value review, environmental analysis, identification of assumptions and premises, internal assessment, customer/market analysis both internal and external, critical strategic issues and plan operationalizing.

PLAN 430. ENVIRONMENTAL PLANNING. 5 Credits.
Surveys the philosophy and techniques of environmental planning, emphasizing an understanding of why environmental considerations should be incorporated into land use planning activities and developing skills needed to carry out an environmental analysis.

PLAN 431. ENVIRONMENTAL IMPACT STATEMENTS. 3 Credits.
Pre-requisites: PLAN 430 or permission of the instructor.
Individual and team field work in the preparation of environmental impact statements. A review of state and federal environmental legislation and procedural requirements.

PLAN 440. LAND USE PLANNING. 5 Credits.
Pre-requisites: PLAN 300, PLAN 301 and PLAN 430.
Explores the issues and methods of analyzing and organizing land uses in urban and regional environments by balancing the demand for uses with the environmental conditions that limit the supply of the land.

PLAN 441. SITE PLANNING. 5 Credits.
Pre-requisites: PLAN 430 or permission of the instructor.
A studio course in the application of site planning methods and principles to subdivision and site development.

PLAN 442. SUSTAINABLE COMMUNITIES. 3 Credits.
This course examines the case for sustainable urban and rural development and explores examples of efforts to create sustainable development.

PLAN 445. LAND DEVELOPMENT. 3 Credits.
A seminar in the financial feasibility analysis and packaging of land development projects with emphasis on the private land development process and its interaction with the public planning processes.

PLAN 446. DEVELOPMENT REVIEW. 3 Credits.
Pre-requisites: PLAN 201 or permission of instructor.
This practice oriented course guides the student through the process of development review at the local level.

PLAN 450. TRANSPORTATION PLANNING. 5 Credits.
A lecture/studio class that explores the procedural and conceptual transportation planning process, including a framework for addressing system characteristics, institutional arrangements, theories of travel, supply and demand, selected forecasting models, and interactions with land use and other urban systems.

PLAN 451. WALKABLE COMMUNITIES. 2 Credits.
This course explores the relationship between urban form and pedestrian activity and the utility of having communities that are accessible and pedestrian friendly.

PLAN 457. SPECIAL TOPICS IN TRANSPORTATION. 2 Credits.
A workshop introducing knowledge and skills related to selected issues in transportation planning and policy. Topics vary each year. Recent topics included rural transportation planning, transportation of hazardous materials, and pedestrian and bicycle planning.

PLAN 460. URBAN DESIGN. 3 Credits.
This seminar explores the theory and techniques of analysis of the design of urban environments, emphasizing the impact local decision-making has on community aesthetics.

PLAN 465. HISTORIC PRESERVATION PLANNING. 3 Credits.
Pre-requisites: PLAN 201 or permission of instructor.
This course introduces planning students and tribal members to the issues of transportation planning on Native American reservations.

PLAN 466. MAIN STREET PLANNING. 2 Credits.
This class uses the Main™ Street model to inform students about a process for improving downtowns of small towns and neighborhood business centers.

PLAN 467. BUILT ENVIRONMENTS OF NORTH AMERICA: SYMBOL AND STRUCTURE. 3 Credits.
Cross listed: GEG 469 or HIST 469.
Pre-requisites: GEG 101 or permission of the instructor.
This course is a survey of North American architectural landscapes from the colonial period to the present. This course will examine such topics as the diffusion of major styles of residential, commercial and public architecture across the continent, the relationship of geology and climate to the availability of building materials and technology and the effects of these on the human built environment, especially in the Pacific Northwest. Special emphasis will be placed on the visual differentiation of building styles and the symbolic, political and philosophical foundations of architectural form and decoration.

PLAN 470. COMMUNITY PARTICIPATION TECHNIQUES. 2 Credits.
Pre-requisites: PLAN 261 or permission of the instructor.
A workshop on the application of skills and techniques of community development and participation, emphasizing personal growth, group formation and dynamics, consulting with groups, and creative change within groups.
PLAN 471. RURAL AND SMALL TOWN PLANNING. 3 Credits. 
Pre-requisites: PLAN 301 or permission of the instructor. 
Discussion and research of the patterns of rural land use, emphasizing legislation, environmental characteristics, community values and anticipated land use demand.

PLAN 472. HOUSING. 3 Credits. 
Pre-requisites: PLAN 201, PLAN 261 or permission of the instructor. 
Discussion and research into the nature of shelter, housing need, policy and programs, codes and standards, and housing assistance plans.

PLAN 473. PLANNING IN THE WESTERN U.S. 3 Credits. 
This course explores how historical context shapes planning in the western U.S. today, examines current problems/prospects of sustainable development in the west, and imagines potential ways of creating a society to match our scenery.

PLAN 476. COMPARATIVE URBANIZATION. 4 Credits. 
Pre-requisites: PLAN 261 or permission of the instructor. 
Satisfies: international studies university graduation requirement. 
A review of the nature of urbanization in developed and developing countries, examining planning-related issues associated with urbanization, overurbanization and counterurbanization in a variety of natural settings.

PLAN 490. SENIOR CAPSTONE: PLANNING STUDIO. 5 Credits. 
Pre-requisites: completion of 15 credit hours of planning courses. 
Satisfies: senior capstone university graduation requirement. 
The culminating studio for undergraduates that demonstrates their abilities through the application of their knowledge and skills to a real community problem. Students typically work in consultation with practicing professionals for a community or agency in producing a planning-related product for use by the client.

PLAN 495. PLANNING INTERNSHIP. 1-10 Credits. 
Pre-requisites: permission of the instructor, department chair and college dean. 
Supervised work in a public agency or with a private consultant. Daily journals are kept, a report is written on the work, and the student is evaluated by the supervisor and faculty member. One hour credit for each four hours of work per week per quarter.

PLAN 496. EXPERIMENTAL COURSE. 1-5 Credits. 
PLAN 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits. 
Pre-requisites: permission of the instructor, department chair and college dean. 
Conferences and short courses on selected planning topics are offered for credit from time to time. These may be on campus or in the communities.

PLAN 498. SEMINAR. 1-5 Credits. 
Selected seminar discussions of various planning topics: law, land development, energy, futures, philosophy and practice.

PLAN 499. DIRECTED STUDY. 1-5 Credits. 
Pre-requisites: permission of the department chair and the instructor.

PLAN 500. PLANNING PRACTICE. 2 Credits. 
This course provides an overview of the practice of planning through presentations and discussions with planning practitioners, lectures and guided student activities.

PLAN 501. FOUNDATIONS OF PLANNING. 5 Credits. 
Survey of the history, theory, philosophy, and practice of planning. Subject matter treated during the course includes consideration of the nature of the planning profession's evolution, the profession's relationship to politics, the extent of ideological pluralism among planners, and the highly varied nature of professional planning activities.

PLAN 502. ADVANCED COMMUNITY DEVELOPMENT. 5 Credits. 
A survey of the structure and process of community development. Emphasis will be on the role of planners and community development specialists as agents for change in the context of community growth. Course will feature seminars and exercises in community problem solving, needs assessment, small group theory and process facilitation.

PLAN 503. PLANNING METHODS I. 5 Credits. 
An introduction to planning process models, work programs, research methods, survey research, and descriptive and inferential statistics. Students also learn to present data graphically and orally.

PLAN 504. PLANNING METHODS II. 5 Credits. 
Cross listed: BADM 504. 
Pre-requisites: PLAN 503. 
An introduction and application of population forecasting, economic analysis, and cost/benefit techniques and their application to planning problems. Students also learn to incorporate information from these techniques into professional planning reports and policy analysis.

PLAN 505. PLANNING IMPLEMENTATION AND LAW. 5 Credits. 
Review of zoning, subdivision regulations, and other tools employed by planners to implement public plans and policies. Consideration of constitutional, statutory, and case law governing the realm of plan and policy implementation.

PLAN 506. PLANNING METHODS III. 5 Credits. 
Pre-requisites: PLAN 503, PLAN 504. 
This is a case studies course focused on comprehensive planning demonstrating how the techniques from previous courses are applied in a comprehensive planning setting and how the functional areas of planning interact with the basic models learned in the previous courses.

PLAN 507. ADVANCED PLANNING STUDIO. 5 Credits. 
Pre-requisites: second year of graduate program. 
Preparation of a major planning project for a community or other agency. Students work in cooperation with practicing professionals, conduct general research, perform analysis, develop specialized plans and draft implementation tools. Each student is assigned specific responsibilities on an interdisciplinary team.

PLAN 508. REFLECTIVE PLANNING THEORY. 3 Credits. 
Pre-requisites: second year of graduate program. 
This course will present an overview of the range of the philosophical and methodological approaches to planning and their varying roles within the discipline. The emphasis is on examining professional knowledge and reflection in action to provide a contextual guide for planning practitioners as they enter the profession.

PLAN 510. COMMUNITY FACILITIES PLANNING. 5 Credits. 
A seminar in the historical development of the planning profession in the United States tracing its roots from colonial town planning to the present. Emphasis is placed on the evolution of the profession and its efforts to cope with the changing urban environment.
PLAN 511. HEALTH IMPACT ASSESSMENT. 2 Credits.
Health impact assessment (HIA) is an analytic and communicative public health process used to inform decision-makers about health impacts of proposed projects, programs and policies that do not traditionally focus on health outcomes, such as transportation, education and housing. HIA serves as a systematic way to shed light on the health consequences of a particular policy decision.

PLAN 512. GROWTH MANAGEMENT. 3 Credits.
An examination of techniques and strategies for affecting the amount, rate, location, and quality of growth. A review of existing efforts at local and state levels to manage growth. Consideration of the legal limits to growth management activities.

PLAN 514. LOCAL ECONOMIC DEVELOPMENT PLANNING. 3 Credits.
This course offers a review of the objectives, strategies, and techniques associated with economic development programs for cities, counties and towns. Students survey techniques including consideration of financial assistance programs, expenditures on public capital, and regulatory reforms. The course will examine ties between economic development, land use planning, and capital budgeting processes.

PLAN 515. DESIGN AND BEHAVIOR. 3 Credits.
This course explores the relationships between environment and human behavior with special emphasis given to the design and planning implications of this body of knowledge.

PLAN 523. AMERICAN INDIAN PLANNING. 4 Credits.
This course will outline the unique context of tribal governments as sovereign nations under the federal government, examine the history and evolution of tribal government institutions within the unique tribal cultural systems and describe the role and relationship of governance and planning within such a framework.

PLAN 524. ADVANCED STRATEGIC PLANNING. 4 Credits.
This course presents an overview of strategic planning processes and their application in public and private management including an overview of management theory and practice, organizational planning, program planning, program management, financial management planning and critical issue analysis.

PLAN 528. AMERICAN INDIAN HEALTH AND COMMUNITY. 4 Credits.
This course focuses on the history, traditional and current practices, and health implications of the American Indian population. Emphasis will be placed on understanding the federal obligation to tribes and tribal sovereignty, the behavioral response and resulting health issues. The course will also examine current health practices and current research with the American Indian population.

PLAN 529. AMERICAN INDIAN HEALTH CARE SYSTEMS AND SERVICES. 4 Credits.
This course focuses on American Indian health, to include the history, relevant laws and legal structure, and health implications of the American Indian population. Emphasis will be placed on history of Indian health care and the federal Indian policies, federal obligation to tribes and resulting health status of American Indians. The course will also examine inherent tribal sovereignty and the federal-tribal (government-to-government) relationship.

PLAN 530. CONTEMPORARY AMERICAN INDIAN PLANNING. 3 Credits.
Prerequisites: PLAN 523.
The purpose of this class is to provide a comprehensive overview and assessment of the current practice of planning on American Indian Reservations. Key topics include the powers to plan; the structures of tribal government and tribal planning; the tribal comprehensive plan; tribal planning regulations and ordinances; public engagement and tribal representation in tribal decision-making as part of planning; and critical research and development to identify and address long-term tribal needs and issues.

PLAN 531. CENSUS DATA FOR AMERICAN INDIAN PLANNING. 2 Credits.
The U.S. Census Bureau provides American Indian/Alaskan Native social and economic data critical for marketing, business, planning and public administration. This class offers an introduction to those data sets and their application to American Indian/Alaskan native and reservation populations for applied basic demographic, economic, business and housing data analysis. Students will complete a socio-economic profile for a selected reservation.

PLAN 532. AMERICAN INDIAN ECONOMIC DEVELOPMENT. 3 Credits.
The purpose of this class is to provide an understanding of tribal economic development for tribal governments, including data inventory, analysis, and how economic development is carried out by planners, economic development specialists, and tribal leaders. The class will review existing literature on tribal economic development, provide students with the skills and expertise to complete economic development analysis of tribal data and develop strategies and plans for economic development of American Indian reservations. The class will also discuss tribal entrepreneurship.

PLAN 533. AMERICAN INDIAN LAW FOR PLANNERS. 3 Credits.
The purpose of this class is to provide a comprehensive understanding of American Indian Law for planners. The complex structures of tribal powers in relation to federal, state, local governments, and the ability for tribes to complete plans, land use regulations and environmental regulations operate within the context of Indian Law. It is essential for tribal planners to have a strong understanding of key court cases, legal issues and powers that frame how tribal governments and tribal planning work.

PLAN 534. AMERICAN INDIAN TRANSPORTATION PLANNING. 4 Credits.
This class will provide a comprehensive understanding of American Indian tribal transportation planning including safety and community well-being. The course emphasizes the Tribal Transportation Plan as part of a community assessment, including existing frameworks and guidelines for transportation planning, program development, road construction and critical transportation needs assessment of safety, enhancement, tribal transit and intergovernmental relations.

PLAN 535. PLANNING, POLITICS AND PUBLIC POLICY. 4 Credits.
Far from studying neutral phenomena and attempting to solve objectively defined problems, the planning profession is permeated with conflict and dilemmas of normative and political nature, such as how to plan and for whom. “Planning, Politics and Public Policy” sets out to study planning as a profession deeply imbued in a complex socio-political context dominated by social, political, technical, cultural, organizational, and economic disparities. The course reviews both theoretical and practical aspects of urban planning and their relationship to the politics of policy-making process. It, finally, inquires about the role of urban and regional planning in a democratic governance context. The substance of this course will be presented through lectures, class discussions, guest speaker talks, field work assignments and group work and presentations.
PLAN 539. SPECIAL TOPICS. 1-5 Credits.
Advanced planning topics will be offered periodically.

PLAN 540. LAND USE PLANNING. 5 Credits.
Explores the issues and methods of analyzing and organizing land uses in urban and regional environments by balancing the demand for uses with the environmental conditions that limit the supply of land and locates these uses based upon criteria that satisfy human needs.

PLAN 542. SUSTAINABLE COMMUNITIES. 3 Credits.
Examines the case for sustainable urban and rural development and explores examples of efforts to create sustainable developments.

PLAN 550. EMERGENT COMMUNITY HEALTH CHALLENGES. 4 Credits.
Critical issues in community health often impact large areas or regions and require interdisciplinary perspectives as part of effective policy analysis. The focus of this class is to identify and create an in-depth examination of a selected emergent community health challenge. The course will feature lectures, independent research, site visits, guest speakers and the exploration of competing public policy priorities such as economic development. The outcome of the class will be documentation of one emergent community health challenge.

PLAN 551. TRANSPORTATION PLANNING. 5 Credits.
A lecture class that explores the procedural and conceptual transportation planning process, including a framework for addressing system characteristics, institutional arrangements, theories of travel supply and demand, selected forecasting models and interactions with land use and other urban systems.

PLAN 552. COMPREHENSIVE COMMUNITY HEALTH PLANNING. 4 Credits.
The purpose of this class is to create frameworks for comprehensive community health planning through restructuring standard planning tools within local and regional government including community involvement. The class will assess current planning theory, models, tools and practice in a context of community health planning, including an examination of planning tools that can be used to assess and improve community health.

PLAN 553. COMMUNITY HEALTH PLANNING STUDIO. 5 Credits.
This planning studio will engage students in an applied project where students learn and demonstrate skills and professional applications of theory, models and processes. This is a hands-on planning course that will address a real life community health issue such as the preparation of a neighborhood or tribal health plan, HIA or the community wellness element of a comprehensive plan or neighborhood plan.

PLAN 560. AMERICAN INDIAN PLANNING STUDIO. 3 Credits.
A Planning Studio represents an application of planning methods and techniques in a comprehensive manner. Each student will design an applied research plan or project for a selected tribe, plus complete a “Portfolio” synthesis report incorporating tribal planning assignments and papers on a selected tribe from each class into a comprehensive assessment of tribal planning for that tribe.

PLAN 565. GIS FOR URBAN AND REGIONAL ANALYSIS. 4 Credits.
This course provides an opportunity to expand spatial data development and analysis skills in the context of applied, real-world planning and policy analysis problems. Topics include data development and management, enhanced knowledge of spatial analysis techniques, and mentored, hands-on application projects.

PLAN 570. ENVIRONMENTAL PLANNING. 5 Credits.
Surveys the philosophy and techniques of environmental planning, emphasizing an understanding of why environmental considerations should be incorporated into land use planning activities and developing skills needed to carry out an environmental analysis.

PLAN 571. ENVIRONMENTAL REVIEW. 3 Credits.
Surveys the philosophy and techniques of environmental planning, emphasizing an understanding of why environmental considerations should be incorporated into land use planning activities and developing skills needed to carry out an environmental analysis and environmental review.

PLAN 572. RURAL AND SMALL TOWN PLANNING. 3 Credits.
Lectures, discussion and research of the patterns of rural land use that form rural areas and small towns, and the special rural and small town planning issues that emphasize legislation, environmental characteristics, community values and anticipated land use demand.

PLAN 589. TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS. 4 Credits.
Cross listed: PADM 589, ECON 589.
Pre-requisites: instructor permission.
The course serves as the capstone experience for the Certificate in Regional Economic Policy Analysis. In consultation and agreement with the course instructor, students will select some regional economic activity for intensive research and policy analysis. During their research students are expected to demonstrate the ability to utilize information, skills and techniques acquired in related Certificate courses. Successfully completion of the course will result in a research paper and a presentation appropriate for a professional conference.

PLAN 591. RESEARCH PROJECT PREPARATION. 1 Credit.
A seminar course designed to prepare students for their capstone research or professional internship report. Reviews research strategies, helps students select topics, produce a work program, and begin research on their project.

PLAN 595. GRADUATE INTERNSHIP. 1-10 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Students may participate in structured internships in agencies without the responsibility of using the internship as a capstone course. However, students must set learning objectives, maintain a journal of their experiences, and prepare a short report.

PLAN 596. EXPERIMENTAL COURSE. 1-5 Credits.

PLAN 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

PLAN 598. ADVANCED PLANNING SEMINARS. 1-5 Credits.
Advanced seminar topics offered quarterly.

PLAN 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

PLAN 601. RESEARCH PROJECT. 1-15 Credits.
Pre-requisites: substantial completion of degree requirements and permission of the instructor, department chair and college dean.
A major planning project approved by the student’s advisory committee. Students must file a record of study in the standard research format which will describe the approach, objectives, methods and conclusions of the project.
Political Science (POLI)

POLI 100. MODERN GOVERNMENT IN AMERICAN CONTEXT. 5 Credits.
Satisfies: GECR for social sciences, list 1, economics and government.
A general introduction to the concepts, methods, and concerns involved
in the study of Political Science. This course discusses fundamental
ideas such as power, ideology, and constitutionalism; the citizen role in
democratic politics; the structure and processes of major governmental
institutions; and selected areas of policy making. Emphasizes the
comparison of the American political system with that of other major,
chiefly democratic, systems.

POLI 202. INTRODUCTION TO POLITICAL THEORY. 5 Credits.
This course is an introduction to major thinkers and ideas within the
tradition of Western political thought. Authors may include Plato,
Aristotle, Machiavelli, Hobbes, Locke and Rousseau. Themes discussed
include power, human nature, rights, political legitimacy and the ideal
form of government. The course is also a primer on how to think and
write theoretically. Through the essay composition process, students will
refine their critical thinking skills and their ability to construct arguments
of their own.

POLI 203. INTRODUCTION TO COMPARATIVE POLITICS. 5 Credits.
Satisfies: international studies university graduation requirement.
An introduction to concepts, such as state, power, ideology and political
phenomena, emphasizing similarities and differences in selected
political systems.

POLI 204. INTRODUCTION TO INTERNATIONAL POLITICS. 5 Credits.
Satisfies: international studies university graduation requirement.
A basic introduction to the nature of politics in the international arena,
with special attention to the instruments of national power, diplomacy,
international law and the role of various international organizations and
alliance systems.

POLI 295. INTERNSHIP. 1-5 Credits.
Internship.

POLI 299. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college
dean.
Subjects studied vary according to faculty and student interest.

POLI 300. U.S. JUDICIAL PROCESS. 5 Credits.
Pre-requisites: POLI 100.
This course examines the relationship of judicial behavior to structure,
politics and the behavior of other actors in the judicial process. This
includes examination of judicial processes from the trial court level
through the Supreme Court of the United States.

POLI 302. CRIMINAL PROCEDURE. 5 Credits.
This course in an examination of the philosophic and legal bases for
the protection of the rights of the criminally accused, with emphasis on
Supreme Court decisions on the 4th, 5th, and 6th amendments and on the
due process clause of the 14th amendment.

POLI 304. U.S. CIVIL RIGHTS AND LIBERTIES. 5 Credits.
Pre-requisites: POLI 100.
This course examines the history and development of civil rights
and liberties in the constitutional context of the United States. It
emphasizes the problems of racial, religious, economic, political and
sexual discrimination and their remedies under the law.

POLI 305. JURISPRUDENCE. 5 Credits.
Pre-requisites: POLI 100 and POLI 202.
This course examines the philosophical underpinnings of the idea
of law by examining the evolution of legal thought from Natural Law
thinkers through Postmodern conceptions of legal reasoning. It includes
discussion about the concepts of rules and justice as well as the nature
and possibility of legal reasoning.

POLI 306. BASIC CONCEPTS OF CRIMINAL LAW. 5 Credits.
A survey of the basic concepts and content of the American substantive
criminal law, including consideration of the purposes of the criminal
law, the basic concepts utilized to define criminal offenses, defenses to
criminal charges, and examination of selected substantive offenses; e.g.,
assault, homicide, larceny.

POLI 307. U.S. CONSTITUTIONAL SYSTEM. 5 Credits.
Pre-requisites: POLI 100 and POLI 300.
This course examines the principal structural features of the U.S.
governmental system, primarily through the study of decisions of the
United States Supreme Court. Particular attention is paid to the structural
realities of separation of powers and federalism and to the development
of the specific powers of the national government in the light of the
powers retained by the states.

POLI 313. ANCIENT AND MEDIEVAL POLITICAL THOUGHT. 5 Credits.
Pre-requisites: POLI 202.
This course engages thinkers and themes from the political theory of
ancient Greece. Authors read include the Presocratics, Plato, Aristotle,
and Seneca, among others. Questions concerning the nature and purpose
of politics, the ideal political order, the definition of justice and virtue,
and classical conceptions of knowledge, among others, will be pursued
in detail. In addition to comparing various authors on these questions,
students will spend some time considering the relationship between
ancient views and more contemporary attitudes.

POLI 314. MODERN WESTERN POLITICAL THOUGHT. 5 Credits.
Pre-requisites: POLI 202.
This course is a detailed encounter with various thinkers of the Western
political theoretical tradition, including Machiavelli, Hobbes, Locke,
Rousseau, and John Stuart Mill, among others. Ideas discussed include
human nature, the rise of the modern state, the role of the individual and
the people, the role of law, and the origins and nature of political power.

POLI 317. AMERICAN POLITICAL THOUGHT. 5 Credits.
Pre-requisites: POLI 100 and POLI 202.
This course examines the major works which have influenced the political
debate and the creation of institutions in the United States. Emphasis
will be on America’s liberal tradition and those values which are in
competition with the liberal philosophy in the United States. Other topics
in the tradition of American political thought include democracy, liberty,
individualism, localism and equality.
POLI 318. MARX AND MARXISM. 5 Credits.
Pre-requisites: POLI 202 and POLI 203.
This detailed examination of the political, economic, and social theory of Karl Marx begins with a discussion of the ideas of G.W.F. Hegel, perhaps the most important European philosopher of the 19th Century and a major influence on Marx's thinking. Students subsequently read a large number of primary texts by Marx himself with excerpts from the writings of Vladimir Lenin, the protagonist of the 1917 Russian Revolution.

POLI 319. NATIONS, NATIONALISM AND PATRIOTISM. 5 Credits.
Pre-requisites: POLI 100 and POLI 202.
This course is a detailed inquiry into nations, nationalism and patriotism, with specific emphasis on the United States. Authors read include Benedict Anderson, Anders Stephanson, and David Campbell among others. Topics explored include the conceptual predicates upon which nations depend, the idea of citizenship, violence and warfare, national identity, manifest destiny and more.

POLI 320. INTERNATIONAL SYSTEMS. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
This course is a focused study of contemporary theories, debates and major scholarly traditions in the study of international politics. By studying and analyzing contending perspectives in world politics, the course covers how scholars of international relations differ from each other in their conceptualization of what the system is or ought to be. The course enables students to have a comprehensive appreciation of the global issues, difficulties and challenges that states and non-state actors face as they interact in the global arena.

POLI 321. INTERNATIONAL ORGANIZATIONS. 5 Credits.
Pre-requisites: POLI 203 or POLI 204 or permission of instructor.
Satisfies: international studies university graduation requirement.
The course engages students in a study of the history, structures and processes of international organizations within the world community. Focusing primarily on the United Nations system and its role in shaping global, national, group and state-society relations, the course also addresses other organizations such as the European Union and the World Trade Organization, as well as non-governmental organizations (NGOs).

POLI 322. INTERNATIONAL POLITICAL ECONOMY. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
This course examines international economic systems and their relation to world political realities. Students will examine theories of state political-economic relations and the history of international efforts to manage trade, monetary and financial systems by applying theories to contemporary global political economics, such as North-South issues and the political economy of oil and war.

POLI 323. U.S. FOREIGN POLICY. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
In this course students analyze important cases in U.S. foreign policy formulation since WW II with particular emphasis on the bureaucratic factors that shape foreign policy decisions.

POLI 324. COMPARATIVE AND INTERNATIONAL WATER POLICY. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
If the 20th century was all about oil, the 21st century is about water. Issues that include privatization, water markets, transboundary conflicts, loss of indigenous water rights and water governance, dams and river basin management, and a host of habitat and water quality issues dominate contemporary water policy in the United States and international arenas. Knowing the issues and the policies that guide the distribution of water will form the basis of the course. Case studies will include privatization in Chile; the upcoming Columbia River Treaty and indigenous claims to the river and its tributaries; treaty negotiations over the Nile and Indus Rivers; the loss of fish species, such as the salmon; and the water quality of several major rivers. The course material will be interdisciplinary drawing from political science, law, geography, history and natural resource economics.

POLI 326. EUROPEAN POLITICS. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
Satisfies: international studies university graduation requirement.
This course is an in-depth study of political life in European states beginning with the origins and contemporary practices of parliamentary democracy in Europe. It also addresses contemporary challenges to and opportunities for European states, including European integration through the European Union and the North Atlantic Treaty Organization (NATO), the broadening of the West toward the former Soviet states and the social, political and economic implications of immigration and international crime and violence.

POLI 327. POLITICS OF DEVELOPING NATIONS. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
This course examines the problems that attend political development in developing nations emphasizing the dilemmas of political development in traditional and transitional societies. Special emphasis is placed on nation-building, economic and social change; ideologies and political development; and elites, political parties, military and bureaucracies.

POLI 328. POLITICS OF THE PEOPLE'S REPUBLIC OF CHINA. 5 Credits.
Pre-requisites: POLI 203 or POLI 204.
This in-depth study of the modern political history and contemporary political system of China includes the fall of imperial China; the origins, development and victory of the Chinese Communist revolution; the rule and legacy of Chairman Mao Zedong, particularly the Great Leap Forward and the Cultural Revolution; economic reform, governance and political repression (especially the Tiananmen crisis) in the era of Deng Xiaoping; and current Chinese politics in the post-Deng China. The course focuses on China's domestic politics as well as China's position in the region and its role in the world.

POLI 329. POLITICS OF SOUTH ASIA. 5 Credits.
Pre-requisites: POLI 203 or POLI 204 or permission of instructor.
Satisfies: international studies university graduation requirement.
This course examines the complex and dynamic regions of South Asia. Constituting nearly a fourth of all humanity and hosting almost half of the world's poor, the subcontinent is a region where histories, geographies and politics intertwine. The course introduces students to the political evolution of the region and to the major scholarly debates on the countries of India, Pakistan, Sri Lanka, Bangladesh and Nepal. Particular emphasis is placed on colonial legacies, nationalism and histories of state formation as well as political institutions and their evolution. Other topics may include democracy and dictatorship, socio-cultural diversity and ethnic conflicts, regionalism, communalism and linguistic politics, development and security concerns.
POLI 330. FEDERALISM, STATE AND LOCAL POLITICS. 5 Credits.
Pre-requisites: POLI 100.
This course examines the theory, history and functioning of the U.S. federal system of government. Emphasis is placed on the structure of the system as well as the interrelationships that exist. State and local governments are examined and emphasis is placed on policy formation, dispersion and implementation as well as the consequences of those policies.

POLI 332. THE U.S. PRESIDENCY. 5 Credits.
Pre-requisites: POLI 100.
This course examines the role of the President in the government of the United States and in international relations. It considers the dynamics of presidential power in the U.S. government as well as relations between the President and other branches of government as well as with the people.

POLI 333. PUBLIC MANAGEMENT. 5 Credits.
Pre-requisites: POLI 100.
The course examines the fundamental concepts, approaches and leading theories of policy analysis. From a linear conception of policymaking to a more complex understanding of policy, this course provides both critical and practical understanding of public policy issues, including those in the realm of social welfare, health, energy, environment, food and agriculture, and national and global security. The course content encompasses the development, formulation, implementation and evaluation of policy. While dealing with substantive sectors and institutional aspects of public policy analysis the course also includes consideration of the complex interplay of power, knowledge and agency in the making of policy.

POLI 335. U.S. CONGRESS. 5 Credits.
Pre-requisites: POLI 100.
This course examines the role of representative governance in the United States by exploring the theoretical underpinnings of the U.S. Congress as created by the Founders, as well as its functions and how those have evolved. It also studies relations between the Congress and the other branches and how members of Congress interact, both institutionally and individually.

POLI 336. U.S. POLITICAL PARTIES AND ELECTIONS. 5 Credits.
Pre-requisites: POLI 100.
This course examines two of the ways that people can affect the political system, by voting and joining political parties, and it considers ways to link those through political campaigns. It will analyze and evaluate party systems and explore the functions of modern U.S. political parties. Students will explore how and why people vote, the nature of modern party systems and explore the functions of modern U.S. political parties and results of revolutions. The course may cover other topics as faculty and student interests change.

POLI 350. CONTEMPORARY POLITICAL PROBLEMS. 1-5 Credits.
Cross listed: may be cross-listed with CHST 320.
Notes: may be repeated for credit when topics vary.
A topical course designed to accommodate the interest of the general student and the department faculty. Topics vary from quarter to quarter and are listed in the quarterly Course Announcement. Recent offerings include Citizen and Law, and Pacific Rim. Analysis of contemporary problems may be under the guidance of one or more department members.

POLI 360. STATE LEGISLATIVE POLITICS EXPERIENCE. 5 Credits.
Pre-requisites: permission of the instructor.
This course is designed to be a guided field experience with students in Olympia during the winter legislative session. It will connect the practical experiences students receive while interning in the Washington State legislature with theoretical models of legislative behavior and case studies of legislative action. Course requires instructor approval and acceptance into the Washington State Legislative Internship Program.

POLI 370. MOCK TRIAL I. 5 Credits.
Pre-requisites: permission of instructor.
Mock Trial I exposes students to courtroom procedures in civil or criminal cases, studying a trial as one form of dispute resolution. Working in teams, students receive a fictional legal case and prepare and argue both sides of that case by applying rules of evidence in a simulated courtroom. Students play the roles of attorneys and witnesses as they prepare and present their case to a panel of judges. POLI 370 focuses on the basics of preparing and building a fictional legal case and introduces students to trial advocacy.

POLI 395. INTERNSHIP. 1-15 Credits.

POLI 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: may be repeated for credit.
Specialized offerings in a workshop-type situation of materials emphasizing current topics and problems in the political arena.

POLI 399. DIRECTED STUDY. 1-5 Credits.
Directed Study.

POLI 400. TOPICS IN AMERICAN POLITICS. 5 Credits.
Notes: may be repeated for credit.
An intensive examination of selected questions in the arena of American political institutions, processes, and public policy. Topics vary from quarter to quarter and include executive reorganization, congressional reform, politics and the press, post-partisan politics and various policy impact studies that cover the values of individual choice and problems of political economy.

POLI 401. TOPICS IN POLITICAL THEORY. 5 Credits.
Notes: may be repeated for credit.
Pre-requisites: POLI 202.
Each of the topics chosen for this course explores in some depth the fundamental relationship between such common political phenomena as obligation, consent, freedom, law, authority, etc. The course is structured so that even when the particular topic is quite narrow, its development touches on the major nodes in the web of relationships these phenomena have with one another.

POLI 402. TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS. 5 Credits.
Notes: may be repeated for credit.
Pre-requisites: POLI 203 or POLI 204.
The topic of this course varies from quarter to quarter, depending on student and faculty interests. Topics in the past have included international law, international organizations (especially the European Union), problems of the international political system, comparative analysis of West European gender regimes, causes of political change and political stability, modernization and political development, causes and results of revolutions, the impact of social forces on the political system. The course may cover other topics as faculty and student interests change.
POLI 421. FEDERAL INDIAN LAW AND POLICY I. 5 Credits.
Cross listed: IDST 421.
This is the first course in a two course series on federal Indian law and policy. Federal Indian law is the law of the land that regulates the relationship between Indian tribes and the United States. Federal Indian policy consists of the various doctrines underlying federal legislative and executive actions affecting Indian tribes. This course will introduce students to laws, regulations and case law that comprise federal Indian law as well as the policies underlying those laws. Topics will be further explored through the use of case studies.

POLI 422. FEDERAL INDIAN LAW AND POLICY II. 5 Credits.
Cross listed: IDST 422.
This course is a continuation of IDST 421. Topics covered include Modern Trust Doctrine, the Federal-Tribal Relationship, congressional plenary power, tribal land and sovereignty issues and tribal justice systems. These topics are explored through the use of case studies.

POLI 470. MOCK TRIAL II. 5 Credits.
Pre-requisites: POLI 370 or permission of instructor.
Mock Trial II exposes students to more advanced courtroom procedures in civil or criminal cases. Working in teams, students work with a fictional legal case to prepare and argue both sides by applying rules of evidence in a simulated courtroom. Students play the roles of attorneys and witnesses as they prepare and present their case to a panel of judges at local and regional competitions. Students may also engage in negotiation competitions as an alternate form of dispute resolution. This course follows POLI 370 with more emphasis on conducting competitive mock trials.

POLI 490. SENIOR CAPSTONE: GLOBALIZATION. 5 Credits.
Cross listed: INST 490.
Pre-requisites: POLI 203 or POLI 204 and senior standing; or permission of instructor.
Satisfies: senior capstone university graduation requirement.
This course is a senior-level seminar designed to integrate and further refine the analytical, writing and presentation skills acquired as a Political Science or International Affairs major. Its premise is that any student of politics or international affairs should graduate a bachelor’s degree program with a refined sensibility of the concept (and varying realities) of globalization. The course covers case studies and theoretical analyses of the global dynamics of economic, cultural, religious, media and political relations as well as the influence of technology on globalization. Students prepare and present an original, extensive case study and analysis of globalization processes, if possible relating to the student’s work as an International Affairs or Political Science major.

POLI 493. PORTFOLIO ASSESSMENT. 1-2 Credits.
Pre-requisites: senior standing or declared major POLI or INST or permission of instructor.
Advised by a member of the Political Science faculty, the student compiles an assessment portfolio of academic assignments completed in program specific courses at EWU. Taken during the term in which the student expects to complete the requirements for a program of study, this course provides the student with an opportunity to undertake guided academic/career planning as well as to participate in summative assessments.

POLI 495. PUBLIC AFFAIRS INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Guided field experience designed to acquaint you with the formation and instrumentation of public policy; involves actual work with a political party, interest group, legislative body or administrative agency.

POLI 498. SEMINAR. 1-5 Credits.
Pre-requisites: permission of instructor.
An in-depth analysis of particular political phenomena, with emphasis on student research. Usually offered on an interdisciplinary basis in cooperation with other departments offering similar courses.

POLI 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Projects in selected fields of government.

POLI 599. INDEPENDENT STUDY. 1-10 Credits.

Psychology (PSYC)

PSYC 100. GENERAL PSYCHOLOGY. 5 Credits.
Satisfies: GECR for social sciences, list 2, anthropology, geography, psychology and sociology.
A general introduction to psychology as the scientific study of behavior and thought; an overview of the areas of psychology and their development; methods in psychology, biological, sensory and developmental influences on behavior; physiological and cognitive components of behavior; theories of learning; a survey of theories of normal and abnormal behavior; principles of psychotherapy; personality theory and testing; and social influences.

PSYC 190. RISKY BEHAVIOR. 2 Credits.
The course will explore, discuss and teach skills that are alternatives for managing risky behavior. Topics that will be covered include decision-making, sexually transmitted infections, sexual assault, alcohol and other drug use, and ways of combating risky behavior including birth control and abstinence, assertiveness and self-management techniques.

PSYC 195. INTERNSHIP. 1-5 Credits.

PSYC 196. EXPERIMENTAL COURSE. 1-5 Credits.

PSYC 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

PSYC 201. LIFE-SPAN DEVELOPMENT. 5 Credits.
Satisfies: GECR for social sciences, list 2, anthropology, geography, psychology and sociology.
A broad overview of human development from birth to death. Topics covered include the biological, cognitive, learning, cultural and socio-emotional influences on development. Designed for the non-major.

PSYC 295. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individualized learning and career development through an off-campus internship. An internship agreement-learning contract form is required and can be picked up prior to registration, along with information about placements and procedures from the Career Services Internship office. Two sections are available, one for psychology majors, one for non-psychology majors.

PSYC 296. EXPERIMENTAL COURSE. 1-5 Credits.

PSYC 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

PSYC 298. SEMINAR. 1-6 Credits.

PSYC 299. DIRECTED STUDY. 1-6 Credits.

PSYC 301. THEORIES OF PERSONALITY. 5 Credits.
An objective and comprehensive study of the major theories of personality.
PSYC 302. ABNORMAL PSYCHOLOGY. 5 Credits.
Explores and evaluates research and theoretical concepts relating to deviant and abnormal behavior.

PSYC 303. FOUNDATION OF PSYCHOTHERAPY. 5 Credits.
Pre-requisites: PSYC 301 and PSYC 302.
Survey of theories of psychotherapy dealing with psychopathology. Particular attention is given to effectiveness of theory construction. Evaluates the role of intervening variables and logical consistency.

PSYC 304. EDUCATIONAL PSYCHOLOGY. 5 Credits.
Pre-requisites: PSYC 201 recommended.
Principles of learning and development as applied to improvements in classroom instruction.

PSYC 305. CHILD AND ADOLESCENT DEVELOPMENT. 4 Credits.
Pre-requisites: ENGL 201; math proficiency recommended.
Mental, physical, social and emotional development from infancy through adolescence.

PSYC 306. ADULT DEVELOPMENT. 4 Credits.
Pre-requisites: ENGL 201; math proficiency recommended.
Covers the processes, evidence, theories and socio-cultural influences on adults.

PSYC 307. PSYCHOLOGY OF ADJUSTMENT. 5 Credits.
Pre-requisites: ENGL 201; math proficiency recommended.
A psychological approach to human behavior, growth and change.

PSYC 309. SCIENTIFIC PRINCIPLES OF PSYCHOLOGY. 5 Credits.
Pre-requisites: MTHD 104.
The study of the methodology and attitudes of psychology irrespective of any special area. Considers techniques for evaluating information, discovering invalid interpretations, and uncovering alternative explanations. These are illustrated by reading research articles and classroom discussion of the articles and of popular beliefs.

PSYC 313. RESEARCH METHODS IN PSYCHOLOGY. 5 Credits.
Pre-requisites: CSBS 320, ENGL 201 and PSYC 309.
This course is an introduction to typical research methods used in psychology. Students complete several research projects reflecting these various methods.

PSYC 314. TESTS AND MEASUREMENTS. 5 Credits.
Pre-requisites: CSBS 320.
This course will provide students with a current analysis of the most widely used psychological tests in schools, professional training programs, business, industry, the military, and clinical settings. Students will learn how psychological tests are constructed, how they are used, and how an understanding of them can make a difference in their careers and everyday lives. Issues of fairness, bias, and social consequences for use and interpretation with diverse populations will be addressed.

PSYC 315. PSYCHOLOGY OF HUMAN RELATIONS. 4 Credits.
Pre-requisites: ENGL 201; math proficiency recommended.
Helps develop your understanding and skill in interpersonal relationships needed for professional consultation and/or counseling.

PSYC 316. HUMAN MEMORY AND COGNITION. 5 Credits.
Pre-requisites: junior level standing or permission of the instructor.
Examination of the principles and theories of human memory and selected topics in cognitive psychology.

PSYC 317. HEALTH PSYCHOLOGY. 5 Credits.
Pre-requisites: PSYC 309.
An examination of the psychological influences on health including both wellness and illness; a focus on the etiology and correlates of health and illness as well as the prevention and treatment of illness. Exploring the psychological dynamics at work in utilization of the health care system and patient-practitioner interactions. Specific coverage of the illness process in pain, lung disease, stress, chronic illness, and AIDS.

PSYC 318. COMPUTERIZATION RESEARCH TECHNIQUES IN PSYCHOLOGY. 4 Credits.
Pre-requisites: CSBS 320 and PSYC 309.
Introduces the use of computers in psychological research through software that inexperienced users can program by filling out forms. Hands-on experience on the system will be acquired during the first 2-3 weeks. Recent experimental findings in a number of research areas will be introduced. Working individually or in small groups, students will select a problem for study and develop a method of investigation using the software system.

PSYC 320. DEVELOPMENTAL THEORIES AND APPLICATIONS. 4 Credits.
Pre-requisites: PSYC 305, PSYC 315 or permission of the instructor.
Covers principles and concepts of major theories of human development, evaluation of theories, appreciation of alternative views of development and alternative strategies for enhancing development.

PSYC 323. DRUGS AND BEHAVIOR. 5 Credits.
Pre-requisites: PSYC 100 recommended.
An introduction to the action, use, and abuse of psychotropic agents from analgesics to hallucinogens. Special attention given to drug abuse.

PSYC 324. CONDITIONING AND LEARNING. 4 Credits.
Pre-requisites: junior standing.
A study of human learning emphasizing conditions for acquisition, learning structures, learning sets, levels of learning and measurement.

PSYC 325. COGNITIVE AND BEHAVIOR CHANGE. 4 Credits.
Pre-requisites: PSYC 100.
This course is designed to examine various cognitive and behavioral change procedures in terms of their theoretical basis and applied strategies. Operant, respondent, social learning, and cognitive theories and their applications will be studied. Students will be required to engage in a self-change project throughout the quarter in order to better understand the principles of cognitive and behavioral change.

PSYC 331. PSYCHOLOGY OF WOMEN. 4 Credits.
Cross listed: WMST 331.
Pre-requisites: completion of ENGL 201 or equivalent.
Satisfies: cultural and gender diversity university graduation requirement. The psychology of women in terms of their bodies, socialization, personality, affiliation and achievement motivations, abnormal behavior patterns, therapy and personal growth needs.

PSYC 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research the women who have made significant contributions to science.
PSYC 340. EMOTION AND EMOTIONAL INTELLIGENCE. 5 Credits.  
**Pre-requisites:** PSYC 100 or equivalent.  
This course explores the psychology of emotion and how emotion impacts behavior and experience. This class investigates what emotion is, how it can be measured, basic theories of emotion, and what factors contribute to the different emotional states. Issues related to emotional intelligence will also be explored, with particular emphasis on emotion identification, understanding, and regulation.  

PSYC 344. INTRODUCTION TO THE HELPING PROFESSIONS. 4 Credits.  
**Pre-requisites:** declared Applied Developmental Psychology major, PSYC 307, PSYC 315, PSYC 320, or permission of instructor.  
This course provides students with an introduction to the helping professions, their specializations, history and ethics issues. Content includes communication skills, blocks to personal effectiveness and sequential stage model of problem solving for helpers.  

PSYC 359. HUMAN SEXUALITY. 5 Credits.  
Psychological, biological, and cultural perspectives of human sexual behavior. The basis for successful functioning; frequency and significance of various types of sexual behavior; anatomy and physiology of reproduction; sexual inadequacy and deviations.  

PSYC 381. SOCIAL PSYCHOLOGY. 5 Credits.  
**Pre-requisites:** PSYC 309 recommended.  
Individual behavior as socially determined: interpersonal attraction, aggressiveness, attitude formation, group dynamics, conformity, and leadership.  

PSYC 395. INTERNSHIP. 1-5 Credits.  
**Pre-requisites:** permission of the department internship director and the department chair and the university Career Services Internship office.  
Individualized learning and career development through an off-campus internship. An internship agreement-learning contract form is required and can be picked up prior to registration, along with information about placements and procedures from the Career Services Internship office. Two sections are available, one for psychology majors, one for non-psychology majors.  

PSYC 396. EXPERIMENTAL COURSE. 1-5 Credits.  

PSYC 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 2 Credits.  

PSYC 398. SEMINAR IN PSYCHOLOGY. 1-5 Credits.  
**Notes:** offered fall/winter/spring.  

PSYC 399. DIRECTED STUDY. 1-6 Credits.  
**Pre-requisites:** permission of the instructor and the department chair.  

PSYC 402. BEHAVIOR MODIFICATION. 4 Credits.  
**Pre-requisites:** PSYC 305, PSYC 324 or permission of the instructor.  
Behavior modification provides an in-depth exposure to the principles, concepts and procedures from both behavioral and cognitive theories as applied to individuals, couples and families, organizational groups and community settings.  

PSYC 404. PSYCHOLOGY OF THE GIFTED/TALENTED CHILD. 3 Credits.  
**Pre-requisites:** PSYC 304 or permission of the instructor.  
Giftedness and talent from a psychological perspective. Seminar format covers issues of development, measurement, theories, prediction and special needs.  

PSYC 417. PEDIATRIC AND ADOLESCENT HEALTH PSYCHOLOGY. 4 Credits.  
**Pre-requisites:** PSYC 402 or permission of the instructor.  
An examination of health factors affecting developmental outcomes. There will be an emphasis on the health aspects of development and how to maintain and improve health-related behaviors in children and adolescents.  

PSYC 420. BIOLOGICAL BASIS OF BEHAVIOR. 5 Credits.  
**Pre-requisites:** PSYC 309.  
Organic foundations of behavior.  

PSYC 421. CARE AND CUSTODY OF FEMALE OFFENDERS. 5 Credits.  
**Cross listed:** WMST 421.  
**Pre-requisites:** junior standing.  
**Satisfies:** cultural and gender diversity university graduation requirement.  
This course explores the care and custody of female offenders in the criminal justice system, with particular focus on psychological factors and mental health treatment.  

PSYC 425. PSYCHOLOGY AND THE LEGAL SYSTEM. 5 Credits.  
**Pre-requisites:** PSYC 100 or permission of the instructor.  
This course is designed to provide an introduction to the field of forensic psychology. The course provides an overview of the role of mental health professionals in correctional settings and in conducting forensic evaluations.  

PSYC 427. INTIMATE RELATIONSHIPS. 5 Credits.  
**Pre-requisites:** PSYC 100 and junior standing or permission of instructor.  
This course explores how social scientists think about, study, research and treat intimate relationships. Issues of communication, gender, sexual orientation, culture are explored within the context of intimate relationships.  

PSYC 430. HUMAN PSYCHOPHYSIOLOGY. 5 Credits.  
**Pre-requisites:** CSBS 320.  
An overview of the following topics: automatic nervous system, biofeedback, clinical applications, emotion, instrumentation, measurement, pain, psychosomatic processes, sleep, social aspects of physiological processes and stress. Laboratory includes: biofeedback, blood flow, ECG, EDR, EEG, EMG, and respiration. Course is especially suited for students of the health sciences.  

PSYC 431. STRESS AND COPING. 3 Credits.  
Examines the psychological, physiological, and health consequences resulting from selected psychological and environmental stressors. Psychological stressors include personality type, social disorganization, competition, and conflict. Environmental stressors include cold, heat, hypo- and hyperbaric pressures, and exercise. Examines coping responses such as biofeedback, progressive relaxation, autogenic training, and physiological adaptation.  

PSYC 433. COMPASSION FOCUSED THERAPY. 3 Credits.  
**Pre-requisites:** PSYC 100, PSYC 302 preferred.  
This course presents students with the theoretical background and approach to psychotherapy taken in Compassion Focused Therapy (CFT). CFT is based in evolutionary psychology, affective neuroscience, cognitive-behavior therapy and centuries-old mindfulness and compassion practices. Students learn to understand emotional difficulties and work with them.
PSYC 440. HAPPINESS AND POSITIVE PSYCHOLOGY. 5 Credits.
Pre-requisites: junior standing.
Happiness has been a neglected topic in psychology, and yet is an important human pursuit. This class investigates what happiness is, how it can be assessed, and what factors facilitate happiness. Other human virtues important to well-being such as gratitude, wisdom, courage, humanity, justice, temperance, and transcendence are explored.

PSYC 450. TRAUMA: THEORY, ASSESSMENT AND TREATMENT. 4 Credits.
Pre-requisites: recommend PSYC 302.
This class explores traumatic experience in terms of substance, impact, and reactions, including the assessment and treatment of trauma-related psychopathology.

PSYC 452. SOCIAL INFLUENCE. 4 Credits.
Pre-requisites: junior standing or permission of instructor.
This course focuses on topics pertaining to social influence, including persuasion, compliance, and obedience. The course covers both intentional and unintentional forms of influence from a psychological perspective.

PSYC 456. TEACHING AND SKILLS TRAINING IN THE MANAGEMENT OF RISKY BEHAVIOR. 3 Credits.
Pre-requisites: PSYC 190.
The course provides guided experiences in developing skills to be a peer-facilitator for PSYC 190. Both knowledge and teaching skills will be explicitly taught and practiced. Such knowledge and skills are necessary in facilitating PSYC 190.

PSYC 461. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY. 5 Credits.
Notes: Cluster B requirements of Psychology BA.
Pre-requisites: junior level standing or higher or instructor permission.
Students apply psychological principles and methods to the workplace, including employee selection, motivation, performance and behavior; the structure and function of occupational positions and activities; and the nature, processes and development of organizations.

PSYC 470. CHILDHOOD PSYCHOPATHOLOGY AND TREATMENT. 5 Credits.
Pre-requisites: junior standing.
This course focuses on psychopathological disorders of childhood and adolescence, critically attending to normal and abnormal developmental sequences. Attention is given to the diagnosis and implications of such disorders and to clinical intervention methods.

PSYC 474. CULTURAL PSYCHOLOGY. 5 Credits.
Pre-requisites: PSYC 100.
Satisfies: international studies university graduation requirement.
This course investigates the literature and methods involved in the psychological study of people from different cultures – both subcultures within the US and peoples from around the world. It also addresses the question of universality of psychological phenomenon.

PSYC 476. CHILD AND FAMILY GUIDANCE. 4 Credits.
Pre-requisites: PSYC 305, PSYC 324 or permission of the instructor.
The interaction between parents and children, the development and socialization of the child within the family and the relationship of the family to the school and community from a developmental perspective. Approaches to child rearing, management, discipline and communication for parents, teachers and other child care personnel are presented. Also examines family social support functions and considers multicultural issues in child socialization and guidance. Appropriate for present and future parents, teachers and child care personnel.

PSYC 481. PREJUDICE AND STEREOTYPING. 5 Credits.
Pre-requisites: PSYC 381 or instructor permission.
The course Prejudice and Stereotyping is a five credit discussion course that examines the social psychological underpinnings of prejudice, stereotyping and discrimination. The course topics will address specific types of prejudice such as sexism and racism, individual differences and cognitive states that can lead to prejudice, the effect of prejudice on its targets and reducing prejudice.

PSYC 483. GROUP DYNAMICS. 5 Credits.
Pre-requisites: declared Applied Developmental Psychology major, PSYC 307, PSYC 315, PSYC 320 or permission of the instructor.
Introduces the principles formed through the scientific study of small-group dynamics and considers the issues and problems arising in the study of groups.

PSYC 484. CHILD ABUSE: RECOGNITION AND INTERVENTION STRATEGIES. 3 Credits.
This course will focus on recognition of abuse in children and specific intervention strategies for their social/emotional needs. Physical, emotional and sexual abuse will be addressed along with factors of recognition for each of these areas of abuse. Specific common indicators of abuse will be looked at as it relates to the impact on the social, emotional, cognitive and behavioral realm of children.

PSYC 485. ADD/ADHD IN THE SCHOOLS. 3 Credits.
This course will provide the skills needed to help minimize the everyday struggles encountered while working with difficult behaviors. Areas to be addressed include characteristics of AD/HD, common treatment approaches, myths about AD/HD and matching interventions to behaviors.

PSYC 490. SENIOR CAPSTONE: THE TRADITION OF PSYCHOLOGY. 6 Credits.
Pre-requisites: CSBS 320, PSYC 309 and PSYC 313.
Satisfies: senior capstone university graduation requirement.
This course fulfills the university capstone requirement and may also be used as an elective within the department’s major. The course consists of three components: (a) the history of psychology, (b) a collaborative project and (c) portfolio preparation.

PSYC 490A. SENIOR CAPSTONE: DEVELOPMENTAL PSYCHOLOGY SENIOR SEMINAR. 4 Credits.
Satisfies: senior capstone university graduation requirement.
The course is designed to help students make the transition from the academic world to the world of work and civic life or to a higher level of academic achievement. The primary goal for the student’s successful transition will be accomplished via the process of application. The course is designed also as an end-of-program assessment tool. The basic assumption is that the developmental coursework has equipped the students with the knowledge of developmental theories, counseling strategies, research methods, and assessment procedures. This capstone will test the student’s ability to apply the course work to real-world situations. The course objectives are organized to facilitate the process of application.
PSYC 490B. SENIOR CAPSTONE: MINDS AND VINES: PSYCHOLOGY OF WINE. 4 Credits.
Pre-requisites: senior standing; 21 years of age and declared major.
Satisfies: senior capstone university graduation requirement.
The goal is for students to integrate their knowledge and hone their psychological problem-solving skills in diverse areas. The integration will include (a) the history and culture of wine, (b) sensory discrimination and marketing of wine, (c) the positive and negative impact of wine on biological and psychological health and (d) the treatment of the latter effects.

PSYC 491. SENIOR THESIS. 4 Credits.
Pre-requisites: invitation of the instructor/advisor.
Satisfies: senior capstone university graduation requirement (replaces ITGS 400 as a senior capstone experience).
Directed research resulting in a formal write-up. Limited to those students for whom research experience will be helpful in obtaining entrance to graduate school.

PSYC 492. FIELD STUDY IN CHILD ISSUES AND PROBLEMS. 4 Credits.
Pre-requisites: PSYC 305, PSYC 324, some senior major courses and faculty advisement.
This course introduces students to professional human service settings through shadowing a professional in the community. Students are expected to enroll in this course over two consecutive quarters.

PSYC 493. FIELD STUDY IN ADOLESCENT ISSUES AND PROBLEMS. 4 Credits.
Pre-requisites: PSYC 305, 324 some senior, major courses and faculty advisement.
This course introduces students to professional human service settings through shadowing a professional in the community. Students are expected to enroll in this course over two consecutive quarters.

PSYC 494. FIELD STUDY IN ADULT ISSUES AND PROBLEMS. 4 Credits.
Pre-requisites: PSYC 305, PSYC 324 some senior major courses and faculty advisement.
This course introduces students to professional human service settings through shadowing a professional in the community. Students are expected to enroll in this course over two consecutive quarters.

PSYC 495. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individualized learning and career development through an off-campus internship. An internship agreement-learning contract form is required and can be picked up prior to registration, along with information about placements and procedures from the Career Services Internship Office. Two sections are available, one for psychology majors and one for non-psychology majors.

PSYC 496. EXPERIMENTAL COURSE. 1-5 Credits.

PSYC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

PSYC 498. SEMINAR. 1-5 Credits.

PSYC 499. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor and the department chair.

PSYC 500. PROSEMINAR: LEARNING AND BEHAVIOR THERAPY. 4 Credits.
Pre-requisites: graduate standing.
An intensive survey of important learning phenomena as they relate to theoretical issues and controversies. Consideration of methodological problems.

PSYC 505. APPLIED LEARNING THEORY AND BEHAVIOR MODIFICATION. 4 Credits.
Applied learning theory, methodology, and research paradigms will be defined and their inter-theory, inter-subject, inter-problem-solving relevance demonstrated.

PSYC 506. COUNSELING DEVELOPMENT AND TRANSITION ACROSS THE LIFESPAN. 4 Credits.
Pre-requisites: Admission to the graduate counseling program: mental health or school counseling emphasis or permission of the instructor.
Major theories of human development, the nature and needs of individuals at all developmental levels and the counseling implications associated with developmental processes are covered.

PSYC 507. HUMAN DEVELOPMENT: RESEARCH, THEORIES AND APPLICATIONS. 4 Credits.
Pre-requisites: graduate standing in psychology. If from a related area, instructor permission is required.
An examination of the field of human development and the contribution of those findings to professional practice. The philosophical and empirical basis for the theories explaining human development will be explored. The course will focus on the criteria that determine the adequacy of a theory and the applications generated by particular theories. Application and interpretation of research according to contemporary, empirically-based theories, and emerging issues and approaches will be key components of the course.

PSYC 508. PROFESSIONAL ISSUES. 2 Credits.
Pre-requisites: admission into psychology MS program.
Professional Issues presents legal, ethical and moral aspects of the professional practice of psychology. Topics will include professional credentialing, registration and licensing; ethical principles of psychologists; confidentiality; disclosure to clients, duty to protect and warn; suicide risk assessment and other ethical dilemmas. Students will receive state required AIDS/HIV training.

PSYC 509. CLASSROOM MANAGEMENT FOR THE SCHOOL COUNSELOR. 3 Credits.
Pre-requisites: admission to the graduate counseling program, school counseling emphasis.
This course will provide an understanding of the role of the counselor in managing classroom behavior, including how to establish positive counselor-student relationships and peer relationships that help meet students' basic psychological needs while building a community of support within the classroom.

PSYC 510. PROFESSIONAL SCHOOL PSYCHOLOGY I. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology.
This course is the first in the series of Professional School Psychology and focuses on the history and principles of school psychology, the professional role of the school psychologist and current trends in education. The course includes various pre-practicum observations in applied settings.

PSYC 511. PROFESSIONAL SCHOOL PSYCHOLOGY II. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology.
This course focuses on the impact of legal issues on the role and functions of school psychologists in Washington.
PSYC 512. PROFESSIONAL SCHOOL PSYCHOLOGY III. 4 Credits.
Pre-requisites: PSYC 510, PSYC 511.
This course is the third in the series of professional school psychology and focuses on professional practice and ethical issues in the field. Best practices in school psychology and considerations of NASP, AERA and APA ethical guidelines and codes of conduct will be covered. The course includes pre-practicum observations in applied settings.

PSYC 513. ADVANCED CHILD AND ADOLESCENT DEVELOPMENT. 4 Credits.
Notes: EdS School Psychology Degree requirement.
The course relies on several perspectives concerning human development and intervention/prevention—ecological theories of development, developmental psychology, developmental psychopathology and risk/resilience research—as theoretical lenses on various interventions.

PSYC 514. RESEARCH AND STATISTICS. 4 Credits.
Pre-requisites: accepted to PSYC graduate program.
In this course you will learn the basic principles of research methods (both group and small n) and statistics used in school psychology. Our focus will be learning to evaluate existing research and applying the principles of scientific methodology to the field.

PSYC 515. ADVANCED EDUCATIONAL PSYCHOLOGY. 4 Credits.
The relevance of psychological theory to educational practice as applied to teaching, learning, development, and evaluation.

PSYC 516. HUMAN MEMORY AND COGNITION. 5 Credits.
Pre-requisites: graduate standing or permission of the instructor.
Examination of the principles and theories of human memory and selected topics in cognitive psychology.

PSYC 517. HEALTH PSYCHOLOGY. 5 Credits.
Pre-requisites: graduate standing or permission of the instructor.
An examination of the psychological influences on health including both wellness and illness; a focus on the etiology and correlates of health and illness as well as the prevention and treatment of illness. Exploring the psychological dynamics at work in utilization of the health care system and patient-practitioner interactions. Specific coverage of the illness process in pain, heart disease, cancer, stress, and chronic illnesses.

PSYC 518. COMPUTERIZED RESEARCH TECHNIQUES IN PSYCHOLOGY. 4 Credits.
Pre-requisites: CPLA or equivalent.
This class is intended to provide graduate students in psychology and allied disciplines with an efficient method of presenting stimuli and gathering data using personal computers. The class introduces the MEL programming system by which users can prepare programs by filling out forms and supplementing the forms with MEL code. Demonstrations and class exercises will apply the programming techniques to carry out common psychological tasks. Students will select a problem for individual study and develop a method of investigation using the software system.

PSYC 520. TACTICS PSYCHOLOGICAL RESEARCH. 4 Credits.
Pre-requisites: admission to graduate program or permission of instructor.
A critical analysis of research methodologies in psychology. Emphasis is placed on developing student skills in asking and answering sound research questions.

PSYC 521. CARE AND CUSTODY OF FEMALE OFFENDERS. 5 Credits.
Pre-requisites: graduate standing.
This course explores the care and custody of female offenders in the criminal justice system, with particular focus on psychological factors and mental health treatment.

PSYC 522. ADVANCED STATISTICS. 5 Credits.
Pre-requisites: CSBS 320 or other inferential statistics class.
Statistical theory, interpretations, and procedures which are especially valuable to workers in education, psychology and related fields.

PSYC 523. ACADEMIC AND SOCIAL BEHAVIORAL INTERVENTIONS. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology.
This course will assist students in understanding the link between assessment and intervention. School-wide Academic and Behavioral Assessment and Interventions, supplemental programs and intensive interventions will be addressed. Students will gain knowledge regarding early intervention, prevention and evidenced based academic and behavioral programs within Pre K-12 schools.

PSYC 525. PSYCHOLOGY AND THE LEGAL SYSTEM. 5 Credits.
This course is designed to provide an introduction to the field of forensic psychology. The course provides an overview of the role of mental health professionals in correctional settings and in conducting forensic evaluations.

PSYC 526. ACADEMIC ASSESSMENT FOR SCHOOL PSYCHOLOGY. 4 Credits.
Pre-requisites: enrollment in school psychology program.
An in-depth review of the purposes and methods of academic assessment in school psychology practice. The course focuses on the administration of various academic assessments and interpretation of the scores obtained from the instruments for use in making data-based decisions. Special attention will be given to the applicability of assessments to diverse student populations.

PSYC 530. SCHOOL COUNSELOR PROCERT CULMINATING SEMINAR. 3 Credits.
Pre-requisites: admitted to the School Counselor Professional Certificate Program.
Spring quarter. Candidates will complete the school year’s work on their professional growth plan that will culminate with a panel presentation and a completed portfolio. The presentation will highlight the school year’s work on Standard Six. The entire professional growth plan portfolio will also be evaluated.

PSYC 531. PSYCHOEDUCATIONAL GROUPS. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology or permission of instructor.
This course examines the theory, assessment and application of different types of psychoeducational groups for children and adolescents in school and agency settings. In addition to didactic learning, students will be required to participate and lead a psychoeducational group.

PSYC 532. RESEARCH AND STATISTICS GROUP DESIGN. 4 Credits.
Pre-requisites: accepted to psychology graduate program.
In this course you will learn the basics of research design and analysis for the behavioral sciences. We will be covering concepts, applications techniques for designing and evaluating research studies for both field and laboratory research.
PSYC 533. INTERVENTION AND PROGRAM EVALUATION. 4 Credits.
Pre-requisites: accepted to psychology graduate program.
This course will assist candidates in evaluating educational interventions in two areas: single case design and program Evaluation. For single case design, we will cover the components, strengths, and limitations of single case design research. We will cover the various designs, ranging from a simple “B” Design to more complex single case designs. We will examine issues related to validity and reliability of single case research and connect this research methodology to your topics of interest. Candidates will leave this course with knowledge to design and carry out a case study, with an adequate (and hopefully more complex) research design. Beyond the focus on single case design, we will also cover the basics of program evaluation. Candidates will leave the course with an understanding of how to evaluate multi-tiered interventions/programs in schools. Finally, we will focus on writing and presenting research findings. Candidates will be writing and presenting a single case design proposal.

PSYC 534. HUMAN NEUROPSYCHOLOGY. 4 Credits.
Pre-requisites: admission to psychology MS program or school psychology program or instructor permission.
The relationships between physiological processes and behavior.

PSYC 535. INTRODUCTION TO MENTAL HEALTH COUNSELING. 4 Credits.
Pre-requisites: admission to the graduate counseling program: mental health counseling emphasis.
An introduction to the profession of mental health counseling. The course will emphasize historical, philosophical, professional, ethical and public policy perspectives. The focus is on the role of the counselor with various clientele.

PSYC 537. ADVANCED PSYCHOPATHOLOGY. 4 Credits.
Pre-requisites: admission into psychology MS program or graduate standing and instructor permission.
This course is designed to teach strategies in diagnosing mental disorders, and to evaluate the most current treatment modalities. Problems of cultural diversity and ethnic differences are explored.

PSYC 538. RESEARCH TOPICS. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: admission to the Psychology Department’s MS program.
This course introduces incoming graduate students in the Psychology Department’s MS program to research interests of the department faculty. Lectures cover theory and previous work on problems of interest, design of recent experimental investigations and analysis of experimental data. Students participate in discussions with lectures and develop their own research interests through meetings with selected faculty.

PSYC 539. SEMINAR IN SPECIAL TOPICS. 1-5 Credits.
Notes: may be graded Pass/No Credit.

PSYC 540. INTRODUCTION TO SCHOOL COUNSELING. 4 Credits.
Pre-requisites: admission to the graduate program: school counseling emphasis or permission of instructor.
The development of the school counseling profession; counseling functions within systems; the structure and management of school counseling programs. CACREP standards and PESB standards for School Counselors.

PSYC 542. CAREER COUNSELING. 4 Credits.
Pre-requisites: admission to the graduate counseling program: mental health or school counseling emphasis or permission of instructor.
Career development theory; educational and vocational information; career decision-making processes; components of school or community career programs.

PSYC 543. COUNSELING THEORIES AND SCHOOL BASED MENTAL HEALTH INTERVENTIONS. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology.
This course provides an overview of theories of counseling and interventions for students with mental health concerns. The course covers the role of the school psychologist as counselor and how school psychologists facilitate a multi-tiered approach to mental health intervention.

PSYC 544. COUNSELING THEORY AND TECHNIQUES. 4 Credits.
An introduction to principles of counseling, and a survey of contemporary theories and techniques.

PSYC 545. APPRAISAL IN MENTAL HEALTH COUNSELING. 4 Credits.
Pre-requisites: admission to the graduate program: mental health counseling emphasis or permission of instructor.
The administration, scoring and interpretation of standardized tests in the mental health counseling profession. Includes a focus on testing ethics, sources of testing bias and diversity issues in assessment, as well as the use of interview assessment/mental status exam and psychological testing for treatment planning.

PSYC 547. ASSESSMENT: SCHOOL COUNSELING. 4 Credits.
Pre-requisites: admission to the graduate program: school counseling emphasis or permission of instructor.
The use of assessment techniques in the school counseling setting, including standardized instruments, sand play and observation. Includes a focus on testing ethics, sources of testing bias, diversity issues, implications of high stakes testing and effective use of assessment in counseling outcomes.

PSYC 548. COUNSELING CHILDREN AND ADOLESCENTS. 4 Credits.
Pre-requisites: admission to the graduate program: mental health or school counseling emphasis or permission of instructor.
Counseling principles and techniques as applied to children and adolescents will be presented and analyzed.

PSYC 550. TRAUMA: THEORY, ASSESSMENT AND TREATMENT. 4 Credits.
Pre-requisites: undergraduate degree in psychology or related field.
This class explores traumatic experience in terms of substance, impact, and reactions, including the assessment and treatment of trauma-related psychopathology.

PSYC 551. FOUNDATION OF PSYCHOTHERAPY. 5 Credits.
Pre-requisites: admission into psychology MS program with clinical emphasis or instructor permission.
Main types of psychological treatment with emphasis upon those which primarily rely on verbal exchanges between the counselee and the therapist. Practical application of techniques will be experienced.

PSYC 552. ESA PEER REVIEW: SCHOOL PSYCHOLOGISTS. 3 Credits.
Pre-requisites: permission of the instructor.
This course is designed to fulfill the requirements specified in the Washington Certification Handbook and the Washington Administrative Code for Continuing Certification of School Psychologists. The major emphases of this course are on documenting the knowledge and skills of practicing school psychologists and providing a forum for peer review based on contemporary standards of practice. Required peer review course for continuing ESA certification.
PSYC 553. SOCIAL, EMOTIONAL AND BEHAVIORAL ASSESSMENT OF CHILDREN AND ADOLESCENTS. 4 Credits.
Pre-requisites: admission to a psychology graduate program.
Students learn assessment techniques to examine social, emotional and behavioral functioning in children and adolescents. A problem solving approach is utilized with training in reviewing, interviewing, observing, and testing children. Major tests considered and applied within this course include broad rating scales such as the Achenbach and BASC systems and narrow rating scales utilized to diagnose more specific disorders.

PSYC 554. COGNITIVE ASSESSMENT. 4 Credits.
Pre-requisites: admission to psychology MS program with clinical emphasis or school psychology program.
This course will provide in-depth training in cognitive assessment, including intelligence, memory, academic, and special abilities testing.

PSYC 555. CLINICAL PRACTICE IN COGNITIVE ASSESSMENT. 3 Credits.
Pre-requisites: admission to psychology MS program with clinical emphasis.
Administration, scoring and writing of psychological reports; Stanford Binet, W.I.S.C. and W.A.I.S.

PSYC 556. PERSONALITY AND BEHAVIORAL ASSESSMENT. 5 Credits.
Pre-requisites: admission to psychology MS program or school psychology program.
This course focuses on assessment techniques utilized to examine emotional and behavioral functioning in children and adolescents. A problem solving approach is utilized with training in reviewing, interviewing, observing, and testing children. Major tests considered and applied within this course include broad rating scales such as the Achenbach and BASC systems and narrow rating scales utilized to diagnose more specific disorders.

PSYC 557. CLINICAL PRACTICE IN PERSONALITY AND BEHAVIORAL ASSESSMENT. 4 Credits.
Pre-requisites: PSYC 556.
Supervision of practice testing with projective techniques, structured personality instruments, and teacher, parent, and self-report rating scales.

PSYC 558. SCHOOL PSYCHOLOGY PRACTICUM. 1-8 Credits.
Notes: Graded Pass/Fail. Repeatable for credit.
Supervised experience of school psychology students in assessment, intervention, and consultation, as well as professional and ethical areas.

PSYC 559. COGNITIVE ASSESSMENT LAB. 3 Credits.
Pre-requisites: must be in school psychology program and permission of the instructor.
School Psychology graduate students take this course concurrently with PSYC 554. Students will administer, score, report, and interpret published norm-referenced measures of intelligence, memory, achievement, perceptual, adaptive, and special abilities typically used in educational environments.

PSYC 560. SCHOOL PSYCHOLOGY CONSULTATION. 4 Credits.
Pre-requisites: admission to the graduate program in school psychology.
This course focuses on the history and principles of collaborative consultation and their application within the school setting. While traditional models of consultation are taught (organizational, behavioral and mental health), this course explores the key components to developing healthy family-school relationships and requires students to work with parents and teachers through Conjoint Behavioral Consultation. Consultation with systems as a preventive strategy is also emphasized, and students complete a school-wide analysis project.

PSYC 561. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY. 5 Credits.
Pre-requisites: graduate standing.
This course surveys the application of psychological principles and methods of work. It includes employee selection, motivation, performance and behavior; the structure and function of occupational positions and activities; and the nature, processes and development of organizations.

PSYC 565. DEVELOPMENTAL PSYCHOPATHOLOGY. 4 Credits.
This course focuses on psychopathological disorders of childhood and adolescence, critically attending to normal and abnormal developmental sequences. Attention is given to the diagnosis and implications of such disorders, and to clinical and educational intervention methods.

PSYC 566. DEVELOPMENTAL PSYCHOPATHOLOGY AND CLINICAL NEUROSCIENCE I. 4 Credits.
This is the first course in a two-quarter sequence of instruction that focuses on describing and understanding psychopathological disorders of childhood and adolescence. A critical emphasis is placed on the neurobiological influences that underlie typical and atypical developmental sequences. Attention is also given to the diagnosis and implications of such disorders and to clinical and educational intervention methods.

PSYC 567. DEVELOPMENTAL PSYCHOPATHOLOGY AND CLINICAL NEUROSCIENCE II. 4 Credits.
This is the second course in a two-quarter sequence of instruction that focuses on describing and understanding psychopathological disorders of childhood and adolescence. A critical emphasis is placed on the neurobiological influences that underlie typical and atypical developmental sequences. Attention is also given to the diagnosis and implications of such disorders and to clinical and educational intervention methods.

PSYC 569. FAMILY SYSTEMS AND PARENT EDUCATION. 4 Credits.
Pre-requisites: admission to the graduate program: mental health or school counseling emphasis or permission of instructor.
The foundations of family systems theory. Examines the interaction between parents, development of the child and the relationship of the family to the school and community. Approaches to child rearing, management and discipline will be considered. Special consideration is given to parent education classes and recent literature in parent counseling.

PSYC 570. CHILDHOOD PSYCHOPATHOLOGY AND TREATMENT. 5 Credits.
Pre-requisites: graduate standing.
This course focuses on psychopathological disorders of childhood and adolescence, critically attending to normal and abnormal developmental sequences. Attention is given to the diagnosis and implications of such disorders and to clinical intervention methods.

PSYC 574. CULTURAL PSYCHOLOGY. 5 Credits.
Pre-requisites: psychology graduate status.
This course investigates the literature and methods involved in the psychological study of people from different cultures – both subcultures within the US and peoples from around the world. It also addresses the question of universality of psychological phenomenon. Graduate students focus particularly on how these findings apply within their graduate field of study.
PSYC 575. DSM TREATMENT ISSUES FOR COUNSELORS. 4 Credits.  
Pre-requisites: admission to the graduate counseling program: mental health or school counseling emphasis or permission of the instructor.  
The examination of current issues related to the classification and diagnosis of abnormal behavior and psychological states and their relationship to treatment. Dimensional, categorical and functional approaches to classification are reviewed, with emphasis on current forms of child and adult psychopathology found in the DSM-IV-TR. Diagnostic topics include historical influences, cultural variation, symptomology, etiology, developmental patterns and treatment approaches to various diagnostic categories.

PSYC 576. PROFESSIONAL ISSUES IN MENTAL HEALTH COUNSELING. 3 Credits.  
Pre-requisites: successful completion of two quarters of mental health counseling Internship in the graduate counseling program: mental health emphasis.  
This course provides students an opportunity to transition from the role of a counselor in training to a beginning professional in the field of mental health counseling. Topics will include advocacy, post graduate credentials, supervision, managed health care systems, agency and private practice and organizational change. An emphasis will be placed on professional identity and roles.

PSYC 579. ADVANCED DIAGNOSTIC ASSESSMENT. 4 Credits.  
This course is an advanced assessment course that prepares candidates for diagnosis and classification in accordance with multiple theories existing in the clinical and educational research. Students utilize cognitive, academic, and social/emotional data in developing hypotheses regarding the presence of learning and social-emotional disability and in planning for intervention delivery. The course emphasizes the complex variables of culture, environment and language in making inferences regarding the presence of a disability.

PSYC 580. CONSULTATION IN THE COUNSELING PROFESSION. 2 Credits.  
Pre-requisites: advanced standing (2nd year) in graduate counseling: mental health or school counseling emphasis, graduate social work, or graduate school psychology programs or permission of instructor.  
Application of psychological skills to organizations and systems; systems analysis and interventions; case consultation; peer consultation and consultation with other human service professionals. Includes information on team building, conflict resolution and the counselor’s role as a systems change agent.

PSYC 581. PREJUDICE AND STEREOTYPING. 5 Credits.  
Pre-requisites: PSYC 381 or instructor permission.  
The course Prejudice and Stereotyping is a five credit discussion course that examines the social psychological underpinnings of prejudice, stereotyping and discrimination. The course topics will address specific types of prejudice such as sexism and racism, individual differences and cognitive states that can lead to prejudice, the effect of prejudice on its targets and reducing prejudice.

PSYC 582. ADVANCED SCHOOL COUNSELING. 4 Credits.  
Pre-requisites: admission to the graduate counseling program: school counseling emphasis.  
This course provides students with an understanding of the comprehensive school counseling model. Students will learn how to convey themselves as a professional school counselor and to create documents to convey that. Students will learn ways to collaborate with other school professionals and those in K-12 students lives.

PSYC 583. GROUP EXPERIENCE. 1 Credit.  
Pre-requisites: admission to the graduate counseling program: mental health or school counseling emphasis or permission of the instructor.  
This class will provide a group process experience for first year students in mental health and school counseling emphases.

PSYC 584. GROUP THEORY. 2 Credits.  
Pre-requisites: admission to the graduate program: mental health or school counseling emphasis or permission of instructor.  
Factors that lead to group change, membership, goals, productivity and organization.

PSYC 585. GROUP PROCESS IN COUNSELING. 2 Credits.  
Pre-requisites: successful completion of PSYC 584 or permission of instructor.  
Students will participate in and practice serving as facilitators of groups.

PSYC 587. ADDICTIVE BEHAVIOR COUNSELING. 4 Credits.  
Pre-requisites: admission to the graduate program: mental health or school counseling emphasis or permission of instructor.  
Graduate course of theory and pragmatics in addictive behavior counseling that documents the personal, social and cultural impact of addiction. The course is designed for those with a specific interest in the nature and treatment of addictive behavior and students preparing for careers in the helping professions. The course presents an integrated overview of modern research and intervention approaches. A variety of viewpoints, theories and treatment approaches will be introduced.

PSYC 588. CRISIS INTERVEN AND TRUAMA COUNSEL. 4 Credits.  
Pre-requisites: admission to the graduate program: mental health or school counseling emphasis or permission of instructor.  
This course is designed to provide students with an overview of the theory, impact, issues and skills of crisis counseling due to traumatic events such as: violence, child abuse, mass casualty events and suicide ideation, as well as the nature, causes and symptoms of professional burnout for crisis workers. The course will examine models for working with children and adolescents, working with victims of violence, suicide prevention, issues of health-related school and mental health crises and the ethical, legal and diversity factors of crisis intervention.

PSYC 590. DIVERSITY COUNSELING. 3 Credits.  
Pre-requisites: admission to the graduate counseling program: mental health or school counseling emphasis or permission of instructor.  
This course will provide a group process experience for first year students in mental health and school counseling emphases. This course will introduce students to a broad spectrum of issues of diversity in counseling, including an examination of their own personal history/background and its impact on their perception of and response to diversity in clients. In this class, the term “diversity” includes differences in racial and ethnic origins, gender, ability, physicality, belief systems, socio-economic status, sexual orientation, developmental stage and variability of intellectual functioning.

PSYC 592. SUICIDE ASSESSMENT AND TREATMENT. 1 Credit.  
Pre-requisites: Admission to the Counselor Education program, or instructor permission. Undergraduate enrollment with instructor permission.  
This course provides an overview of suicide risk and protective factors. Outlines a working assessment framework to assign risk as well as intervention techniques and best practices, including referral when needed.
PSYC 594. PROFESSIONAL ISSUES IN SCHOOL COUNSELING. 2 Credits.  
**Pre-requisites:** admission to the graduate counseling program: school counseling emphasis.  
This course provides information and experiences to enable the student to transition from the role of counselor in training to that of a professional in the field of school counseling. Topics include advocacy, management of school counseling services and programs, professional identity. Students contribute to the topics surveyed in this course based on experiences in the program.

PSYC 596. EXPERIMENTAL COURSE. 1-5 Credits.  
PSYC 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.  
**Notes:** only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

PSYC 598. SEMINAR. 1-5 Credits.  
**Notes:** may be graded or offered Pass/No Credit at the discretion of the instructor.

PSYC 599. INDEPENDENT STUDY. 1-5 Credits.

PSYC 600. THESIS. 1-15 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

A bound research study conducted as partial fulfillment of a master’s under the direction of a graduate committee.

PSYC 601. RESEARCH REPORT. 1-15 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

A research study in lieu of a bound thesis conducted as partial fulfillment of a master’s under the direction of a graduate committee.

PSYC 602. SCHOOL PSYC PORTFOLIO. 1-6 Credits.  
**Pre-requisites:** admission to School Psychology Program.

Students prepare reflections and evidence to document their knowledge and competence in the NASP standards for training and practice. An informal presentation of the portfolio is provided at the end of the second year of the program to document readiness for the internship experience. In the third year of the program, students provide a formal presentation as a culminating experience in the program.

PSYC 651. ADVANCED PSYCHOTHERAPY STRATEGIES. 3 Credits.  
**Pre-requisites:** admission into the psychology MS program with clinical emphasis or instructor permission, PSYC 551.

Advanced techniques and strategies of psychological treatment. Techniques reviewed could include compassion focused therapy, solution focused therapy, brief therapeutic strategies, dialectical behavior therapy and/or other therapeutic strategies used in the field. Practical application of techniques will be experienced.

PSYC 694. PRACTICUM. 1-8 Credits.  
**Notes:** graded Pass/No Credit.

**Pre-requisites:** admission to psychology MS program or school psychology program.

Supervised experience of a clinical or counseling nature in service areas or supervised experience in research.

PSYC 695. INTERNSHIP IN SCHOOL PSYCHOLOGY. 1-6 Credits.  
**Notes:** may be graded Pass/No Credit.

**Pre-requisites:** permission of the instructor, department chair and college dean and must be in the school psychology program.

Experience under supervision in selecting, administering and scoring tests. Opportunities for diagnosis, counseling evaluation and reporting.

PSYC 696. COLLEGE TEACHING INTERNSHIP. 1-5 Credits.  
**Pre-requisites:** permission of the instructor and the department chair.

Teaching a lower-division college course under the supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

PSYC 697. INTERNSHIP IN PSYCHOLOGY. 1-10 Credits.  
**Pre-requisites:** permission of the instructor, department chair and college dean.

Internship experience of professionally supervised training in approved agency or institution. The period of internship will commence on the date it is approved by the department chair and no internship credit will be granted retroactively.

**Public Administration (PADM)**

PADM 500. PERSONAL ASSESSMENT. 1 Credit.  
**Notes:** Graded Pass/No Credit. This course should be taken the 1st or 2nd quarter in the program.

**Pre-requisites:** admitted MPA student or director signature required.

A seminar in weekend format during the student’s first or second quarter; it concentrates on career choice issues and assists in determining job fit, teaching students the use of psychometric instruments and techniques for assisting employees to make sound career decisions. The weekend will also include an abbreviated assessment center so students can gain experience in both the roles of assessor and assessees.

PADM 501. PUBLIC ADMINISTRATION RESEARCH APPROACHES. 4 Credits.  
**Notes:** this course should be taken the 1st or 2nd quarter in the program.

**Pre-requisites:** A college level course in U.S. domestic political institutions taken within seven years with a grade ≥2.5 or C. Admitted MPA student or director signature required.

Assists the student in developing skills in locating, obtaining and assembling information pertinent to public administration. The course explores various approaches to research found in public administration literature. It also involves students in critically examining research with attention to the tasks of defining a research purpose, posing research questions, writing a literature review and selecting an appropriate research approach (quantitative, qualitative or mixed methods).

PADM 503. CONCEPTS AND VALUES PUBLIC SERVICE. 4 Credits.  
**Notes:** this course should be taken the 1st or 2nd quarter in the program.

**Pre-requisites:** A college level course in U.S. domestic political institutions taken within seven years with a grade ≥2.5 or C. Admitted MPA student or director signature required.

Offers an analysis of the development of the administrative state and the profession of public administration. Emphasis is placed on the value system underlying modern public administration and its impact on the administrative process.

PADM 505. PUBLIC POLICY CYCLES. 4 Credits.  
**Pre-requisites:** PADM 500, PADM 501, PADM 503 and admitted MPA student or director signature required, domestic political institutions required.

An examination of the impact of environmental forces on the formulation and content of public policy on the local, state or national level. Such elements as social values, political institutions and processes, intergovernmental relations, political resource distribution and the structure of policy are central to this investigation.
PADM 507. PUBLIC POLICY ANALYSIS. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required, statistical techniques through inferential required.
Offers an examination of rational decision making with a focus on use of analytical tools as an instrument of public policy. Analytic tools include political and economic modeling. Emphasis varies with instructor.

PADM 509. PUBLIC PERSONNEL MANAGEMENT. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. Addresses the fundamentals of human resource management in the public sector. Topics covered may include the civil service system, merit principles, equal employment opportunity, and/or current human resource management issues or techniques related to such concerns as employee recruitment, selection, orientation and motivation.

PADM 511. PUBLIC SECTOR ORGANIZATION THEORY AND DYNAMICS. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of contemporary organization theory and ways that it helps us understand the dynamics of organizational change and transformation, with special reference to the public sector and the basic values of modern public administration.

PADM 513. PUBLIC PLANNING AND BUDGETING. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. An examination of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques.

PADM 515. ADMINISTRATIVE LAW AND REGULATION. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A description, analysis and critique of the American systems of administrative law and regulations and their impact on the public manager.

PADM 517. PROFESSIONAL EMPLOYMENT. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director signature required.
A seminar in weekend format offered as a student’s graduation approaches; it focuses on transition into the job market, giving students experience in résumé preparation, interviewing techniques from the perspectives of both the employer and prospective employee. Additional topics to be covered include personnel system reform efforts, handling of stress in the workplace and ethical issues which commonly arise.

PADM 519. PUBLIC SERVICE LEARNING. 2 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. Guided field placement in at least 100 hours of voluntary service with an agency or organization that provides public service. (Students may be excused from this course based on evidence of at least 100 hours of voluntary service provided in a context outside of this requirement. If a student is excused from this course, the 2 credits will be replaced with 2 credits of elective classes.)

PADM 523. PUBLIC FINANCIAL MANAGEMENT. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 525. PUBLIC SECTOR GRANTS-WRITING AND ADMINISTRATION. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 527. CAPITAL FINANCE AND BONDS. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 531. INTERGOVERNMENTAL RELATIONS. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 533. CITY GOVERNMENT ADMINISTRATION. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 539. SPECIAL TOPICS. 1-5 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 541. COLLECTIVE BARGAINING. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 543. LABOR RELATIONS. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 545. COLLECTIVE BARGAINING. 2 Credits.
Cross listed: BADM 545.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 547. HIRING RIGHT. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 551. COMPARATIVE PUBLIC ADMIN. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 553. CONSTITUTION AND PUBLIC ADMINISTRATION. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 555. THE POLITICAL EXECUTIVE. 4 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.

PADM 561. PUBLIC ADMINISTRATION THROUGH FILM AND TELEVISION. 2 Credits.
Pre-requisites: PADM 500, PADM 501, PADM 503 and admitted MPA student or director
signature required. A review of budget process emphasizing bureaucratic politics, policy issues, alternative methods, and planning techniques. The emphasis is on municipal financial management, its environment and the skills required.
PADM 563. PUBLIC SECTOR ETHICS. 4 Credits.
This course seeks to provide an understanding and appreciate of basic technical concepts and frameworks, a variety of theoretical theories and approaches are considered and applied to public sector situations. A main focus of the course is on the exercise of both individual and collective judgment - "Right Action" or "Good Conduct" - in public organizational and policy setting.

PADM 571. ENTREPRENEURSHIP: JOURNEY OR DESTINATION. 4 Credits.
This course is designed to assist students in assessing their personal interests in entrepreneurship and as part of that assessment, the course will include learning from the life and times of entrepreneurs, both historical and present. The student will be expected to develop a biosketch of their chosen entrepreneur and share that information with the class. cross listed with PADM 571

PADM 589. TOPICS IN REGIONAL ECONOMIC POLICY ANALYSIS. 4 Credits.
Cross listed: ECON 589, PLAN 589.
Pre-requisites: instructor permission.
The course serves as the capstone experience for the Certificate in Regional Economic Policy Analysis. In consultation and agreement with the course instructor, students will select some regional economic activity for intensive research and policy analysis. During their research students are expected to demonstrate the ability to utilize information, skills and techniques acquired in related Certificate courses. Successfully completion of the course will result in a research paper and a presentation appropriate for a professional conference.

PADM 596. EXPERIMENTAL COURSE. 1-4 Credits.

PADM 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-4 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

PADM 598. SEMINAR IN PUBLIC ADMINISTRATION. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

PADM 600. THESIS RESEARCH SEMINAR. 1-15 Credits.
Notes: continuous registration of 2 credit hours per quarter; maximum of 8 credits allowed toward MPA degree.
Pre-requisites: PADM 501 and permission of the instructor, department chair and college dean.
A seminar designed to assist students completing research requirements in connection with the MPA program. This is a required course if the thesis option is chosen. The thesis can be substituted for the advanced research and writing seminar within a chosen specialization and as an elective. The thesis option is intended for those students going on to doctoral study.

PADM 601. MPA CAPSTONE. 2 Credits.
Pre-requisites: permission of the MPA director or both of the following: 1. completion of all other core classes, and 2. taken concurrently with MPA 602 MPA Portfolio in the last quarter before obtaining the MPA degree.
An integrative analysis of public administration from a generalist's perspective and synthesizes prior specialized instruction in the basic theories, institutional and organizational dynamics, and processes involved in public administrative practice. This course concludes with the MPA Written Comprehensive Examination, successful completion of which is required for students to receive the MPA degree.

PADM 502. MPA PORTFOLIO. 2 Credits.
Notes: graded Pass/No Credit.
An advanced reflective praxis project in which a student, following the guidelines provided by the MPA Program and with the advice and editorial review of the chair of his/her comprehensive oral exam committee, develops a portfolio including his/her best work in the MPA Program. The portfolio is presented and discussed as part of the comprehensive oral exam for the MPA degree.

PADM 603. INTERNSHIP IN PUBLIC ADMINISTRATION. 2-8 Credits.
Notes: grade Pass/No Credit, may be repeated.
Pre-requisites: permission of the instructor, department chair and college dean.
Guided field placement with a public agency.

PADM 695. INTERNSHIP. 5-10 Credits.

Public Health (PUBH)

PUBH 500S. ORIENTATION TO PUBLIC HEALTH 1. 1 Credit.
This course introduces students to the history and background of public health. It aims to develop a public health orientation among students, and discusses some of the successes and failures of public health.

PUBH 501S. FURTHER HISTORY AND PHILOSOPHY OF PUBLIC HEALTH. 1 Credit.
This course provides a more detailed introduction to public health approaches and concepts. It aims to continue to develop a public health orientation among students, and discusses public health issues, concepts and terminology.

PUBH 500S. ORIENTATION TO PUBLIC HEALTH. 1 Credit.
This course provides an overview of the field of public health, including its principles, concepts, and methods of epidemiologic practice; design, interpretation and evaluation of epidemiologic investigation. The course introduces students to the role of the epidemiologist in public health. It aims to develop a public health orientation among students, and discusses public health issues, concepts and terminology.

PUBH 502S. FOUNDATIONS IN EPIDEMIOLOGY. 3 Credits.
This course imparts in students the foundations of epidemiology, including its principles, concepts, and methods of epidemiologic practice; design, interpretation and evaluation of epidemiologic investigation. The course introduces students to the role of the epidemiologist in public health. It aims to develop a public health orientation among students, and discusses public health issues, concepts and terminology.

PUBH 503S. FURTHER HISTORY AND PHILOSOPHY OF PUBLIC HEALTH. 1 Credit.
This course provides a more detailed introduction to public health approaches and concepts. It aims to continue to develop a public health orientation among students, and discusses public health issues, concepts and terminology.

PUBH 500S. ORIENTATION TO PUBLIC HEALTH. 1 Credit.
This course provides an overview of the field of public health, including its principles, concepts, and methods of epidemiologic practice; design, interpretation and evaluation of epidemiologic investigation. The course introduces students to the role of the epidemiologist in public health. It aims to develop a public health orientation among students, and discusses public health issues, concepts and terminology.
PUBH 561S. SOCIAL AND BEHAVIORAL EPIDEMIOLOGY AND ISSUES IN PUBLIC HEALTH. 3 Credits.
An overview of the vast body of epidemiological literature that incorporates social and personality factors, cultural influences upon individual behavior, stress and related psychosocial factors as determinants of health. These determinants of health and illnesses are multi-factorial and enmeshed in the social fabric and psychological constitution of the person or may involve a complex interaction of the person and environment. This course will illustrate how public health, epidemiology and the medical sciences have borrowed from theoretical and conceptual bases of the behavioral sciences for etiologic models of disease. Public health literature using psychosocial epidemiology measures will be discussed, such as the chronic, degenerative diseases: hypertension, CVD, depression, arthritis, certain cancers and diabetes. The potential of the behavioral sciences for the development of explanatory frameworks and expanding knowledge of social conditions of unknown etiology will be emphasized. In addition, research methodology in Psychosocial epidemiology will be reviewed.

PUBH 563S. RESEARCH, BIOSTATISTICS AND OTHER WAYS OF ‘KNOWING’. 3 Credits.
This course begins with an introduction to differing research paradigms, before moving on to discuss the important issue of ethics in research. The course then concentrates on biostatistics. This approach is subsequently critiqued and alternative more qualitative and participatory approaches are examined. A critical approach is adopted to explore all of the paradigms presented.

PUBH 564S. ENVIRONMENTAL AND OCCUPATIONAL EPIDEMIOLOGY AND RESPONSE. 3 Credits.
This course introduces students to the twin fields of environmental and occupational epidemiology. It begins with an examination of human-environment interactions, global climate change and the Anthropocene concept. The course then explores potential environmental threats (physical, chemical, radiological and biological agents) and bodily responses to such insults in both the workplace and the wider environment. Vectors for dissemination are then examined, as are susceptible populations and biomarkers. The potential of GIS is explored via a practical project as part of a risk analysis. Risk management and response are briefly introduced. A critical approach to environmental and occupational health induced illness is adopted through an exploration of the impacts of race, ethnicity, socio-economics and industrial interests on debates in the field.

PUBH 565S. COMBATTING HEALTH INEQUALITIES. 3 Credits.
This course begins with an examination of health inequalities locally, nationally and globally. This is followed by an examination of competing explanations for the existence of such inequalities. Particular attention is paid to structural issues and racism and exclusion. The course then focuses on health promoting responses to such inequalities at all relevant levels through focusing on an annual health issue (individual, family, group, community, neighborhood, City, State, National, International).

PUBH 572S. HEALTH RISK MANAGEMENT AND RESPONSE. 3 Credits.
This course focusses on risk management, preparedness and response. The course starts with an examination of the risk management process and adopts a systems based approach. Attention is given to legal, governance and ethical dimensions of risk management before a vulnerability assessment is completed by students. The course then examines emergency planning and preparedness for ‘major incidents’, before concluding with an exploration of public health responses to infectious disease outbreaks.

PUBH 573S. HEALTH PROGRAM PLANNING, EVALUATION AND PROCESS IMPROVEMENT. 3 Credits.
This course introduces the student to community program planning and evaluation. The course is designed to develop the core competencies needed to plan, implement and evaluate public health interventions. The course introduces the major activities and processes involved in planning, implementing, and evaluating public and community health programs. Students will be introduced to a range of theories, evidence-based strategies, and resources critical to effective public health practice. Students will learn concepts by applying them to ongoing projects in cooperation with real clients in the field.

PUBH 574S. SEMINAR IN PUBLIC HEALTH PREPAREDNESS. 3 Credits.
This course focusses on public health preparedness and response to major incidents and communicable disease outbreaks. The course starts with an examination of concepts of risk before examining the principles of response. The major foci of this course are: initial rapid assessment; surveillance; personnel and logistics; and communicable disease control.

PUBH 582S. PROFESSIONALISM IN PUBLIC HEALTH 1. 1 Credit.
This course provides an introduction to professionalism in public health. It focuses on self-presentation and internship preparation.

PUBH 583S. PROFESSIONALISM IN PUBLIC HEALTH 2. 1 Credit.
This course provides an introduction to professionalism in public health. It focuses on self-presentation and internship preparation.

PUBH 585S. RESEARCH PROJECT PROPOSAL 1. 1 Credit.
The first half of this course guides students in developing a clear focused ethical relevant and achievable research proposal. It then focuses on advanced academic skills in conducting a comprehensive in-depth literature search and writing a literature review worthy of publication.

PUBH 586S. RESEARCH PROJECT PREPARATION 2. 1 Credit.
The first half of this course further develops students' understanding of philosophical approaches to research. The second half then turns to advanced skills in methodological questions relating to conducting a research project worthy of publication.

PUBH 587S. RESEARCH PROJECT. 2 Credits.
Pre-requisites: PUBH 585S and PUBH 586S.
Completion of a research project under guidance from a faculty member.

PUBH 594S. SEMINAR IN HEALTH PROMOTION. 3 Credits.
By reviewing specific programs, this course introduces the student to health communication, its theories, its roles in health promotion and behavior. It also provides the student with an understanding of health communication research and practice, its role in patient provider interactions, public health campaigns and media advocacy. In addition, this course allows the student to understand the foundations of social, cultural and organizational complexities of communicating about health.
Race and Culture Studies (RCST)

RCST 101. AN INTRODUCTION TO THE STUDY OF RACE AND CULTURE. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement. This course is specifically designed to discuss at length the social construct and the lived realities of race and culture and how global diversity, the richness of culture, and complexities that internationalization and globalization impact our current realities.

RCST 202. RACE, PRIVILEGE AND POWER. 5 Credits.
Satisfies: cultural and gender diversity university graduation requirement. This course examines social stratification in the United States through the prism of race, privilege, and power. The course analyzes how social structure and ideology maintain social inequality. Specifically, it examines the ways in which the American economic, political and social systems perpetuate and reinforce inequality based on differences in class, race, culture and gender, and access to power.

RCST 304. LIBERATION AND SOCIAL CHANGE. 5 Credits.
Pre-requisites: RCST 101.
This course examines the ageless social liberation movements and struggles to be free through change: free to be critical of one’s condition; free to express oneself without fear of retribution; or free from social, economic, political or religious oppression. It examines social change as it refers to an alteration in the social order of a society. This course is designed to focus on the liberation struggles, movements and social change of those historically marginalized populations in the U.S. The objective is to focus specifically on the struggles of African Americans, Chicanos, Native Americans and Asian Americans, a select few women and men and the liberation movements most associated with them.

RCST 330. RESEARCHING RACE AND CULTURE. 5 Credits.
Pre-requisites: RCST 101.
The purpose of this course is to help the student develop a general understanding of the research methods commonly used to gain and extend knowledge about race and culture. Students gain exposure to theory, knowledge and techniques that increase their effectiveness in thinking about consuming and conducting research about race and culture. The course is designed to be both an application and a theory course with the emphasis on gaining an initial understanding of the research processes.

RCST 430. RESEARCH METHODOLOGIES IN RACE AND CULTURE STUDIES. 5 Credits.
Pre-requisites: RCST 330.
This course provides an overview of methods and procedures for conducting research in Race and Culture studies and prepares students to evaluate research findings and practices, to design and carry out basic research procedures. Students learn to critically evaluate and utilize research, select research instruments and design applied research projects.

RCST 490. SENIOR CAPSTONE IN RACE AND CULTURE STUDIES. 5 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement. This course encourages personal engagement in the interest of relevance and pragmatism, through community study, research and documentation; directed research on an ethnic community problem to include fieldwork within the student’s chosen community.

RCST 491. SENIOR THESIS IN RACE AND CULTURE STUDIES. 5 Credits.
Pre-requisites: senior standing.
The thesis represents a summative assessment of the student’s academic competence in his or her field of study. Students complete and defend an original research project in the study of Race and Culture.

RCST 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor and the department chair.
Recreation & Leisure Services (RCLS)

RCLS 125. RECREATION AND LEISURE SERVICES ACTIVITIES. 1 Credit.
Notes: co-educational.
Backpacking, basic rock climbing, scuba diving, skiing (cross country), canoeing, and rafting.

RCLS 196. EXPERIMENTAL COURSE. 1-5 Credits.

RCLS 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

RCLS 201. RECREATION AND LEISURE IN MODERN SOCIETY. 3 Credits.
An introduction and orientation to the professional opportunities, areas, requirements, and responsibilities involved in the professional preparation of recreation and leisure services administrators. Includes basic problems and trends influencing the status of recreation and leisure in our contemporary society. Covers history, definitions, and professional organizations.

RCLS 206. OUTDOOR LIVING SKILLS. 4 Credits.
Notes: offered fall quarter.
Pre-requisites: declared Outdoor Recreation Major or permission of instructor.
This class teaches the fundamental outdoor living skills needed to be proficient in wilderness backpacking and a variety of wilderness-based activities. Students will have the opportunity to learn the knowledge and skills of wilderness backpacking, cooking in the backcountry, navigation, wilderness leadership, trip planning, risk management, and environmental ethics. These skills are consistent with core competencies outlined by the Wilderness Education Association. A 4-day backpacking trip is required to complete this course.

RCLS 220. LEadership in recreation and Leisure services. 3 Credits.
Pre-requisites: must be a declared Recreation Major (Outdoor Recreation, Therapeutic Recreation or Recreation and Tourism Management) or Challenge Course Management and Leadership Minor or permission of instructor.
Emphasis on the elements of leadership in the recreation setting. Designed to provide ideas on how to lead programs so they fit participant needs. Fieldwork is part of the requirement.

RCLS 225. FACILITATION TECHNIQUES. 3 Credits.
Pre-requisites: RCLS 220.
This course teaches advanced leadership and facilitation skills for group initiatives and teambuilding activities. This course covers topics that are vital to the framework for developing teambuilding and group facilitation programs and sessions. Topics discussed include selection of appropriate challenge activities to meet the needs of a specific group, understanding group dynamics, group goal setting and assessment, sequencing, framing, debriefing techniques and leadership considerations for individual and co-leader facilitation. Fieldwork is part of the course requirements.

RCLS 230. WHITWATER KAYAKING. 2 Credits.
This course is designed to instruct paddlers in whitewater kayaking techniques. The course will emphasize the essential skills needed for paddling moderately difficult rivers. The basic kayaking skills that are taught in the course include: paddle strokes, boat control, and basic whitewater safety information.

RCLS 240. OVERVIEW OF THERAPEUTIC RECREATION SERVICES. 4 Credits.
FALL/SPRING This course focuses on understanding the basic problems, needs and strengths of all disability groups in relation to developing and implementing a therapeutic recreation program.

RCLS 250. CAMP ADMINISTRATION AND LEADERSHIP. 3 Credits.
This course covers the philosophy, objectives, planning and operation of camps. It also provides an overview of counselors’ responsibilities, programming, marketing, health and safety, as well as individual and group guidance techniques and trends.

RCLS 260. ARTS IN RECREATION. 3 Credits.
This course presents several media of art, i.e. mask making, clay, paper art, music and physical movement, and delves into the historical and cultural interpretations of each medium. Hands on application and practice with the medium follows, accompanied by teaching guidelines and discussion of adaptations for various populations.

RCLS 270. DIVERSITY AND SOCIAL JUSTICE IN RECREATION AND LEISURE SERVICES. 3 Credits.
Pre-requisites: RCLS 201 or permission of instructor.
This course is designed to enhance understandings of leisure in a diverse society. Students examine factors that influence leisure, explore how leisure mirrors broader cultural values, and learn ways to use leisure to expand their own cultural understandings. In addition, students learn to think critically, understand and respect different perspectives, and appreciate the cultural and contextual nature of their leisure choices and actions.

RCLS 296. EXPERIMENTAL COURSE. 1-5 Credits.

RCLS 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

RCLS 300. PUBLICITY AND PROMOTION IN RECREATION. 4 Credits.
Provides skills, techniques and ideas for designing visual aids, working with the media and developing a five-step promotion package for recreation and leisure service agencies.

RCLS 305. WINTER CAMPING. 3 Credits.
Pre-requisites: RCLS 206 or permission of the instructor.
Introduction to winter camping and modes of oversnow travel such as showshoeing and cross-country skiing. Emphasizes skill development in winter camping techniques, natural shelter construction, and equipment familiarization, supported through field experience.

RCLS 307. MOUNTAINEERING. 3 Credits.
Pre-requisites: RCLS 305 or permission of the instructor.
Designed to provide a comprehensive program of basic mountaineering. Intensive consideration given to snow and glacier travel as well as other skills necessary for safe alpine mountaineering. Includes two weekend field trips.

RCLS 310. OUTDOOR RECREATION. 3 Credits.
This course will examine the broad spectrum of outdoor recreation. The course materials are designed to explore the following aspects of outdoor recreation: agencies affecting the management of outdoor recreation experiences; concepts of wilderness and wilderness management; a review of the pertinent issues related to those who work in the field. Responding to the challenges of building a career in the field of outdoor recreation, the focus of this course will be in designing, planning, interpreting, and transferring outdoor recreation experiences. This course will rely on a combination of critical reading, creative thinking, exploratory writing and group participation to enable the student to broaden her or his understanding of the expansive domain of the outdoor recreation industry.
RCLS 313. WILDLAND RECREATION MANAGEMENT. 3 Credits.
Pre-requisites: RCLS 201.
This course is designed to provide an overview of wildland recreation management history, principles, practices and contemporary issues. An additional emphasis of the course is to expose students to the seven principles that guide the mission of the Leave No Trace Center for Outdoor Ethics.

RCLS 315. WILDERNESS SURVIVAL. 3 Credits.
Provides basic life-support skills and information to help you predict and prepare for the types of emergencies you are likely to encounter in a particular geographic location. Course includes an overnight encounter with limited supplies.

RCLS 321. CHALLENGE COURSE LOW ELEMENT. 3 Credits.
Pre-requisites: RCLS 220.
In this course students will learn proper facilitation skills for spotted activities and low challenge course elements. Topics discussed include: program safety, standard operating practices and procedures, assessing the physical, human and social environment to improve participant safety and program effectiveness, various spotting techniques, conducting low element inspections, equipment maintenance and risk management for low challenge courses. Students will be introduced to current challenge course industry standards for low challenge course elements. Course requirements include hands-on experience and spotting at low height.

RCLS 325. OUTDOOR ADVENTURE PROGRAMMING. 3 Credits.
A survey of outdoor adventure education programs. Includes historical development and future trends as well as methods of initiating outdoor adventure education within a curriculum or program.

RCLS 330. INTERMEDIATE WHITETWATER KAYAKING. 2 Credits.
Notes: Further instruction and development is advised upon the completion of this course. The ACA recommends completing an advanced whitewater kayaking class as the next step in the student progression. See the instructors of this class or go to www.ACA.org for more information.
Pre-requisites: permission of instructor.
The course is best suited for paddlers who have continued to develop their kayaking skills and acquire experience in the whitewater environment, including the ability to reliably roll a capsized boat in Class II whitewater. The intermediate kayaking skills and information taught in this course emphasize developing good judgment and decision-making skills; group management; developing an ethic of environmental stewardship; intermediate paddling techniques and mechanics; the presentation of on-water scenarios to assess risk, evaluate rapid features, and develop strategies; and the principles of safety and rescue for individuals and groups.

RCLS 340. AQUATIC FACILITIES MANAGEMENT. 3 Credits.
Emphasis on pool, beach, and lake properties concerning operation, administration, maintenance, supervision, trends, water chemistry, health and safety, public relations and other aquatic topics.

RCLS 345. THERAPEUTIC RECREATION FOR PEOPLE WITH DISABILITIES. 3 Credits.
Pre-requisites: declared Therapeutic Recreation Major or permission of instructor.
This course covers the information necessary for you to identify, define and describe major physical disabilities including their implications for therapeutic recreation programming.

RCLS 349. YOUTH SPORTS MANAGEMENT. 3 Credits.
This course is designed to introduce students to the primary responsibilities of a programmer or administrator in the youth sports management setting. Topics include managing risk, finances, leagues and tournaments, parents, coaches, and referees.

RCLS 350. RECREATION PRACTICUM. 5 Credits.
Pre-requisites: RCLS 201.
Direct observation and on-the-job participation in the programming and operation of recreation programs within the local recreational community to enhance your programming, scheduling, and leadership techniques under a supervised situation.

RCLS 351. FIELD PRACTICUM. 1-15 Credits.
Involves the practical application of theoretical concepts and recreation-related skills in a recreation and leisure services organization. Requires three (3) hours of work, per week, for every credit assigned, i.e.; one credit equals thirty hours of work over a ten-week period. Students must document their work in accordance with PEHR department policies.

RCLS 352. CHALLENGE COURSE TECHNICAL SKILLS. 3 Credits.
Pre-requisites: RCLS 220.
In this course students will learn proper technical and facilitation skills for high challenge course elements. Students will be introduced to current challenge course industry standards for challenge course installation, inspection, operations and certification. Topics discussed include equipment, spotting techniques, belay techniques and systems, knot tying skills, challenge course set-up and breakdown, challenge course terminology, proper safety guidelines and risk management. Course requirements include hands-on experience and climbing at height.

RCLS 353. CHALLENGE COURSE ADVANCED TECHNICAL SKILLS. 3 Credits.
Pre-requisites: RCLS 352.
In this course students will expand their technical skills for both low and high challenge course elements. Current challenge course industry standards for challenge course installation, inspection, operations and certification will be emphasized and reviewed. Topics discussed include emergency management including executing high course rescue techniques, understanding critical applications and climbing in a leading edge environment, learning advanced belay systems and descending techniques and developing technical teaching skills for the challenge course environment. Course requirements include hands-on experience and climbing at height.

RCLS 360. FACILITY PLANNING AND ENVIRONMENTAL DESIGN. 3 Credits.
Pre-requisites: RCLS 201 and junior standing or permission of the instructor.
Design and trends in recreation facilities, as well as knowing environmental design techniques, environmental impact statements, and inter-agency cooperation. Field work is part of the requirement.

RCLS 365. SKIING FOR THE HANDICAPPED. 2 Credits.
This course is designed to acquaint you with current alpine teaching progressions and their applications to skiing for the handicapped. You are assigned a handicapped skier to work with during the quarter.

RCLS 370. OUTDOOR RECREATION AQUATIC PROGRAMS. 3 Credits.
Pre-requisites: RCLS 125 Rafting.
An overview of major outdoor aquatic adventures such as river rafting and kayaking. Emphasis placed on developing a fundamental awareness of skills necessary in each activity in addition to logistical and business aspects of conducting excursions.
RCLS 375. INTERMEDIATE WHITEWATER RAFTING TECHNIQUE. 4 Credits.
Pre-requisites: RCLS 125 Rafting or permission of the instructor.
The course focuses on intermediate rafting techniques and the
development of leadership procedures in paddle rafts. River skills and
guide competencies will be developed through hands-on experience.
Emphasis will be placed on good decision making and safety concerns
for rafting on fast flowing class III and IV whitewater. Leadership
skills will be developed by students learning to be river guides and
maneuvering heavy rafts on the most difficult whitewater section of the
Spokane River. A three-day field trip is required.

RCLS 385. PROGRAMMING IN RECREATION AND LEISURE SERVICES. 3 Credits.
FALL/WINTER This course presents steps to programming within the
role and structure of public and private recreation services. Special focus
is placed on determining participant needs and values, brainstorming,
selection and implementation of ideas, evaluation techniques, and
volunteer recognition and retention. Fieldwork is part of the requirement.

RCLS 395. INTERNSHIP. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college
dean.
An opportunity to gain field experience with various recreation and leisure
service agencies.

RCLS 396. EXPERIMENTAL COURSE. 1-5 Credits.

RCLS 400. LEGAL FOUNDATIONS IN RECREATION AND LEISURE SERVICES. 4 Credits.
Pre-requisites: RCLS 201 and RCLS 220 or permission of the instructor.
This course includes the major considerations necessary to comply with
legal safeguards in the leisure service profession.

RCLS 405. WILDERNESS UPGRADE FOR MEDICAL PROFESSIONALS. 4 Credits.
Pre-requisites: HLED 194 or permission of the instructor.
This course will provide the necessary skills to assist an injured or ill
person in a wilderness environment where advanced medical help is
delayed by time, terrain, weather or distance. The focus of this class
is on the acquisition of skills and knowledge to be able to assess a
victim's condition, make an appropriate decision regarding treatment, use
available or otherwise improvise the necessary supplies or equipment to
manage the patient's condition and implement a plan for evacuation.

RCLS 410. OUTDOOR LEADERSHIP. 4 Credits.
Pre-requisites: RCLS 201 and RCLS 220 and junior standing or
permission of the instructor.
A culmination of the outdoor recreation and skill-oriented courses with
an emphasis on the concepts of outdoor leadership. Offers opportunities
in group dynamics, program planning. Objective is to foster necessary
attitudes and leadership skills related to adventure programing in outdoor
recreation through field experiences. Includes two weekend field trips.

RCLS 415. SEARCH AND RESCUE MANAGEMENT. 4 Credits.
Pre-requisites: junior standing or permission of the instructor.
A practical approach to learning search and rescue techniques and
management. Emphasis on administrative procedures. A variety of
resource specialists will present portions of the course.

RCLS 420. PROGRAM PLANNING AND EVALUATION IN THERAPEUTIC RECREATION. 4-5 Credits.
Pre-requisites: declared Therapeutic Recreation major or permission of
instructor.
The purpose of this course is to suggest various activities used in
rehabilitation of the disabled. The selection of activities is made using a
social-behavior skill factor analysis of the activity lab.

RCLS 425. EVALUATION, RESEARCH AND STATISTICS IN RECREATION AND LEISURE SERVICES. 4 Credits.
Pre-requisites: RCLS 385 and junior standing or permission of the
instructor.
Covers basic methods of personnel and program components. Methods of
sampling and survey techniques are addressed as they relate to
recreation and leisure services.

RCLS 435. EMPLOYMENT PROCESSES IN RECREATION AND LEISURE SERVICES. 2 Credits.
Pre-requisites: RCLS 201, RCLS 220 and senior standing.
Designed to introduce the recreation student to the employment process:
recruiting, application and resume screening, interviewing, checking of
references, hiring, on-the-job training and probationary period.

RCLS 440. PROFESSIONAL ISSUES IN THERAPEUTIC RECREATION. 4 Credits.
Pre-requisites: declared Therapeutic Recreation Major or permission of
instructor.
Informs students of the constant changes and developments in the
therapeutic recreation profession.

RCLS 445. PROCESSES AND TECHNIQUES IN THERAPEUTIC RECREATION. 4 Credits.
Pre-requisites: declared Therapeutic Recreation Major or permission of
instructor.
Informs students of the constant changes and developments in the
therapeutic recreation profession.

RCLS 450. ASSESSMENT TECHNIQUES IN THERAPEUTIC RECREATION. 4 Credits.
Pre-requisites: declared Therapeutic Recreation Major or permission of
instructor.
This course is designed to assist therapeutic recreation majors with
the mastery of skills, attitudes and knowledge required for professional
service in therapeutic recreation. Special attention given to the
therapeutic recreation specialist as a therapist in a medical model.

RCLS 455. RESORT AND COMMERCIAL RECREATION MANAGEMENT. 3 Credits.
Pre-requisites: RCLS 201 and RCLS 385.
This course is intended to provide working management knowledge
related to resort and commercial recreation enterprises.

RCLS 460. SUPERVISION OF THERAPEUTIC RECREATION SERVICES. 4 Credits.
This class will introduce the concepts, theories and practices of effective
supervision in the health and human service delivery system. Covers the
essential elements of supervision that are pertinent to being an effective
practicing therapeutic recreation supervisor in either a clinical setting or a
community-based therapeutic recreation setting.
RCLS 462. FOUNDATIONS OF TRAVEL AND TOURISM. 3 Credits.
Notes: offered spring quarter.
Pre-requisites: RCLS 455 or permission of instructor.
This course provides students with an introduction and overview of the travel and tourism industry including historical, behavioral, societal and business aspects of travel and tourism. Narrowing in focus, students learn about the impact of tourism on communities and strategies for sustainability. Students examine various sectors of the tourism industry and have the opportunity to explore their own special areas of interest.

RCLS 463. GLOBAL CITIZENSHIP AND INTERNATIONAL TOURISM. 4 Credits.
Notes: offered spring quarter.
Students explore global citizenship with regard to travel and tourism. In particular, students examine ethical dilemmas in travel and tourism and learn how to research and identify environmental, socio-cultural and economic impacts of tourism on the destination.

RCLS 465. SEMINAR IN TRAVEL AND TOURISM. 4 Credits.
Pre-requisites: RCLS 462 or permission of the instructor.
This course is designed to offer recreation management majors an insight into some of the multidimensional and complex issues currently seen in the travel and tourism industry. Students explore, problem solve, report, and discuss current issues as presented in a series of tourism case-study scenarios. In addition, students gain hands-on experience by planning and implementing a seven-day field trip to a major tourist destination or city.

RCLS 470. ADMINISTRATION, ORGANIZATION AND SUPERVISION IN RECREATION AND LEISURE SERVICES. 4 Credits.
Pre-requisites: RCLS 425 and senior standing or permission of the instructor.
Local, state, and federal recreation and park programs; their organization and administration, and their relation to other social institutions; special emphasis on planning, financing and legislative provisions, governmental control, budget, personnel, departmental organization and administrative practices, especially on the local level.

RCLS 475. CHALLENGE COURSE MANAGEMENT AND OPERATION. 3 Credits.
Pre-requisites: RCLS 353.
In this course students will learn the skills needed to properly maintain the overall operation of a challenge course program. Students will gain an understanding of current challenge course industry standards and how to implement them effectively in a challenge course program. Topics discussed include challenge course program administration and management, site specific operational polices and procedures, program philosophy, documentation, risk management, insurance, staff supervision and technical accountability of the challenge course.

RCLS 480. BUDGETING IN RECREATION AND LEISURE SERVICES. 4 Credits.
Pre-requisites: RCLS 201 and RCLS 385 or permission of the instructor.
This course is designed to identify both traditional and innovative methods of financing recreation services at the public and private level along with an analysis of personal spending and budgeting procedures. A complete budget document for a selected organization will be developed.

RCLS 490. SENIOR CAPSTONE IN RECREATION. 4 Credits.
Pre-requisites: RCLS 470 and senior standing.
Satisfies: senior capstone university graduation requirement.
This course is designated as the capstone course for those students majoring in recreation and leisure services within the Department of PEHR. An end-of-program assessment will be completed for each major. The course will focus on the major issues and problems facing recreation professionals as they enter the field. Using group problem solving techniques, lecture and a research paper, the students will present and defend a position on an issue or develop and defend a solution to an existing problem. A major focus will be for the students to further develop their understanding of the group process as it relates to being a member of a team as well as the ability to effectively use resources to develop a research paper.

RCLS 493. THERAPEUTIC RECREATION PROFESSIONAL INTERNSHIP. 12 Credits.
Pre-requisites: declared Therapeutic Recreation Major and compliance with RCLS Department’s internship requirements or permission of instructor.
Full-time working experience in a therapeutic recreation service setting in line with student’s professional aspirations. Actual involvement in recreation and program planning; implementation supervision and program evaluation under professional and faculty supervision.

RCLS 494. OUTDOOR REC PROF INTERNSHIP. 12 Credits.
Pre-requisites: compliance with RCLS department’s internship requirements; permission of the instructor, department chair and college dean.
Full-time working experience in an outdoor recreation service setting in line with your professional aspirations. Actual involvement in recreation and program planning; implementation supervision and program evaluation under professional and faculty supervision.

RCLS 495. RECREATIONAL MANAGEMENT PROFESSIONAL INTERNSHIP. 12 Credits.
Pre-requisites: compliance with RCLS department’s internship requirements; permission of the instructor, department chair and college dean.
Full-time working experience in a recreational management service setting in line with your professional aspirations. Actual involvement in recreation and program planning; implementation supervision and program evaluation under professional and faculty supervision.

RCLS 496. EXPERIMENTAL COURSE. 1-15 Credits.

RCLS 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Periodically scheduled special workshops deal with aspects of recreation and leisure services.

RCLS 498. SEMINAR. 1-5 Credits.
Periodically scheduled special seminars deal with aspects of recreation and leisure services.

RCLS 499. INDEPENDENT STUDY. 1-10 Credits.
Regional Initiatives in Dental Education (RIDE)

RIDE 509N. MOLECULAR AND CELLULAR BASIS OF DISEASE—FOUNDATIONS 1. 8 Credits.
Notes: graded Pass/Fail.
Prerequisites: admission to UW School of Dentistry (UWSOD).
This course teaches the principles of cell and molecular biology, physiology, biochemistry and genetics. Aspects include the organization of the genome, properties of macromolecules, and cytoarchitecture. Students will gain an understanding of intracellular communication, cell-cell interactions, properties of differentiated cells, and the diversity of their physiological properties and functions.

RIDE 510N. DENTAL ANATOMY AND OCCLUSION. 3 Credits.
Notes: graded Pass/Fail.
Prerequisites: admission to UW School of Dentistry (UWSOD).
This course includes lecture and laboratory content on the morphology and nomenclature of individual teeth of the adult dentition, introduction to tooth histology and function and the influence of tooth anatomy on clinical dental procedures.

RIDE 511N. INVADERS AND DEFENDERS—FOUNDATIONS 2. 8 Credits.
Notes: graded Pass/Fail.
Prerequisites: admission to UW School of Dentistry (UWSOD).
This course covers and integrates the immune system, microbial biology, infectious diseases (including treatment), inflammation and repair, and skin and connective tissue. Topics discussed include the pathogenesis and immunity of infectious disease, immunodeiciencies, hypersensitivity, autoimmunity, the basis of immunologic diagnostics.

RIDE 512N. INTRODUCTION TO PERIODONTICS. 2 Credits.
Notes: graded Pass/Fail.
Prerequisites: admission to UW School of Dentistry (UWSOD).
This course explores the clinical, histopathologic and radiographic features of periodontal diseases, principles of preventive periodontics and initial examination of the periodontium. Topics include normal structure, classification and epidemiology of periodontal diseases, etiologic factors, host response, and pathogenic lesions in periodontal disease.

RIDE 513N. ORAL MICROBIOLOGY. 2 Credits.
Prerequisites: admission to the UW School of Dentistry (UWSOD).
This course applies basic sciences to an understanding of the molecular bases of the interactions between microorganisms and oral tissues that lead to plaque formation and dental diseases. Principles of clinical asepsis and diagnosis of caries and periodontal diseases are also covered.

RIDE 514N. FOUNDATIONS OF DENTAL MEDICINE. 2 Credits.
Notes: graded Pass/Fail.
Prerequisites: admission to the UW School of Dentistry (UWSOD).
In this course, the students will become familiar with the elements of patient interviewing, including developing a problem-focused, medical, social and dental history. They will also learn how to physically assess the dental patient. They will learn and apply principles of cultural competence and ethics throughout this process.

RIDE 519N. CARDIAC, PULMONARY AND RENAL DISEASES—FOUNDATIONS 3. 8 Credits.
Notes: graded Pass/Fail.
In this course students will become familiar with the structure, function and diseases of the cardiac, pulmonary and renal systems with special emphasis on the management of these diseases in the practice of dental medicine and surgery.

RIDE 520N. DENTAL OCCLUSION. 3 Credits.
Notes: graded Pass/Fail.
Topics include: fabrication of master case models, articulator use and function, contacts in MIP and CO, temporomandibular joint function, mandibular excursion movements, mandibular envelopes of movement and how anatomical determinants influence occlusal function in all anatomical planes.

RIDE 521N. INTRODUCTION TO DENTAL PUBLIC HEALTH. 2 Credits.
Notes: graded Pass/Fail.
Students analyze a real-world public health case and develop feasible solutions. Each small group will present their solutions at the end of the course. Students submit weekly critical summaries of research articles and complete reading assignments. On the final examination students demonstrate basic dental public health knowledge.

RIDE 522N. FOUNDATIONS OF DENTAL MEDICINE 2. 2 Credits.
Notes: graded Pass/Fail.
Students will increase expertise with patient interviewing and developing a problem-focused medical, social and dental history. They will improve their skills in physical assessment, including diagnostic tests. They will learn how to develop a differential diagnosis. They will learn and apply principles of cultural competence and ethics throughout this process.

RIDE 523N. ORAL HISTOLOGY AND EMBRYOLOGY 1. 3 Credits.
Notes: graded Pass/Fail.
Development of orofacial and neck structures; tooth/pulp histology, development, eruption and exfoliation; innervation of teeth and oral structures; craniofacial and dental anomalies; cranioskeletal development; emporomandibular joint; masticatory muscle structure and function; oral mucosa and epithelial differentiation; periodontium and epithelial attachment; specialized mucosa; gustation; salivary gland structure and physiology.

RIDE 530N. BLOOD AND CANCER - FOUNDATIONS 4. 8 Credits.
This course provides an overview of hematology and oncology. Students learn the biology of bone marrow and blood, with an introduction to the field of cancer medicine. Specific cancer subtypes are discussed, providing illustrative examples of the impact of molecular biology and environmental risk factors in the development/treatment of malignancy.

RIDE 531N. ENERGY AND HOMEOSTASIS - FOUNDATIONS 5. 8 Credits.
Prerequisites: must be admitted to the UW School of Dentistry.
This course covers energy metabolism, nutrition, obesity, diabetes, gastrointestinal/liver physiology, and endocrinology. Topics include physiology and pathology of digestion and hepatic function, principles and practice of clinical nutrition, endocrine integration of metabolism, and endocrine pathophysiology. Relevant anatomy, histology and pharmacology of the Endocrine and GI Systems are also covered.

RIDE 532N. ORAL AND MAXILLOFACIAL RADIOLOGY THEORY. 3 Credits.
Prerequisites: must be admitted to the UW School of Dentistry.
In this course students will become familiar with and obtain expertise in radiation protection, potential risks of ionizing radiation, justification of exposures, decision making in type of radiographic exposure and radiographic interpretation of oral and maxillofacial anatomy and basic dental pathology (e.g. periapical radiolucency and caries).
RIDE 533N. ORAL HISTOLOGY AND EMBRYOLOGY 2. 3 Credits.  
Pre-requisites: must be admitted to the UW School of Dentistry.  
Development of orofacial and neck structures; tooth/pulp histology,  
development, eruption and exfoliation; innervation of teeth and  
oral structures; craniofacial and dental anomalies; cranioskeletal  
development; temporomandibular joint; masticatory muscle structure  
and function; oral mucosa and epithelial differentiation; periodontium  
and epithelial attachment; specialized mucosa; gustation; salivary gland  
structure and physiology.

RIDE 534N. INTRODUCTION TO EVIDENCE-BASED DENTISTRY. 1 Credit.  
Pre-requisites: must be admitted to UW School of Dentistry.  
Evidence-based dental decision-making considers patient needs and  
desires, clinician strengths and weaknesses, and up-to-date research  
evidence. The student will learn about why evidence-based patient care  
is safer and more effective. They will learn how to evaluate scientific  
evidence on oral health, and apply it in clinical decision making.

RIDE 535N. INTRODUCTION TO OPERATIVE DENTISTRY. 4 Credits.  
Pre-requisites: must be admitted to UW School of Dentistry.  
In this course students will become familiar with and obtain  
expertise in applied dental materials, elementary concepts of tooth  
restoration, understanding of etiology and preventive aspects of caries,  
understanding of caries management by risk assessment. Students  
learn and develop the surgical skills for the restoration of one surface  
pathologic lesions.

RIDE 559. LOCAL ANESTHESIA. 1 Credit.  
Pre-requisites: admission to UWSOD.  
This course is intended as an introduction to dental local anesthesia  
for RIDE students. Pharmacology, neurophysiology, techniques,  
emergency prevention and management, armamentarium safety, and  
client management will be discussed. Safe administration and  
student-operator decision making are emphasized in both didactic and  
laboratory activities.

RIDE 596. EXPERIMENTAL COURSE. 1-5 Credits.

Science Education (SCED)

SCED 390. SCIENCE TEACHING METHODS. 2 Credits.  
Notes: designed for BAE Biology, Chemistry, Earth Science. Physics  
majors and minors as well as those seeking middle level science  
endorsement.  
Pre-requisites: EDUC 303 or by permission of the instructor plus upper  
level major courses.  
Students study types of science programs, organization of lesson  
materials, techniques, laboratory safety and evaluation.

SCED 391. MIDDLE LEVEL AND EARTH AND SPACE SCIENCE METHODS.  
3 Credits.  
Notes: This course is designed for students seeking an endorsement to  
teach middle school science and/or secondary earth and space science.  
Students must complete ≥70% of program to enroll in this course.  
Pre-requisites: SCED 390 or concurrent enrollment.  
The course includes information and strategies for teaching the Next  
Generation Science Standards. Focus is on addressing commonly held  
misconceptions, as well as techniques and activities for teaching life,  
earth and space and physical sciences at the middle school level.

SCED 396. EXPERIMENTAL COURSE. 1-6 Credits.  
SCED 399. DIRECTED STUDY. 1-5 Credits.  
SCED 490. MIDDLE LEVEL SCIENCE CAPSTONE AND PRACTICUM. 5  
Credits.  
Notes: This is a professional development course for students planning  
to be middle level science teachers and just prior to student teaching and  
is a requirements for the BAE in Middle Level Science Major.  
Pre-requisites: EDUC 341 and SCED 390.  
Satisfies: senior capstone university graduation requirement.  
This course aligns with the goals for the General University Requirement  
for a senior capstone as well as for professional development of middle  
level science teachers as recommended by the State of Washington.  
In addition curriculum and teaching practice will align with the Next  
Generation Science Standards (NGSS).

SCED 499. DIRECTED STUDY. 1-5 Credits.

Social Studies (SOST)

SOST 196. EXPERIMENTAL COURSE. 1-5 Credits.  
SOST 199. SPECIAL STUDIES. 1-5 Credits.  
SOST 299. DIRECTED STUDY. 1-5 Credits.  
SOST 390. SOC STUDIES IN SEC SCHOOL. 4 Credits.  
Pre-requisites: EDUC 303 or permission of the instructor.  
The social studies program for secondary schools. Objectives, curricula,  
teaching materials, techniques, and field experience.

SOST 396. EXPERIMENTAL COURSE. 1-5 Credits.  
SOST 399. DIR STUDY. 1-5 Credits.  
SOST 490. SENIOR CAPSTONE: SOCIAL STUDIES IN THE PUBLIC  
SCHOOLS. 4 Credits.  
Pre-requisites: SOST 390 and senior status in the Social Studies  
Education major or permission of the instructor.  
Satisfies: senior capstone university graduation requirement.  
An examination of the objectives, curricula, teaching materials,  
techniques and methods of social studies.

SOST 495. INTERNSHIP. 1-5 Credits.  
SOST 496. EXPERIMENTAL COURSE. 1-5 Credits.  
SOST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5  
Credits.  
SOST 498. SEMINAR. 1-5 Credits.  
SOST 499. DIRECTED STUDY. 1-5 Credits.  
Pre-requisites: permission of the instructor and the department chair and  
college dean.

SOST 596. EXPERIMENTAL COURSE. 1-5 Credits.  
SOST 599. INDEPENDENT STUDY. 1-5 Credits.

Social Work (SOWK)

SOWK 273. INTRODUCTION TO SOCIAL WORK. 5 Credits.  
Pre-requisites: ENGL 101.  
This course explores the history of social work and social welfare in the  
United States. Students will gain an understanding of values and ethics  
related to social work practice social work interventions related to issues  
of social justice, oppression and discrimination.
SOWK 320. AFRICAN AMERICAN FAMILY. 5 Credits.
Cross listed: AAST 320, SOCI 371.
The African American Family as a social system influenced by institutions of the larger American society.

SOWK 377. ALTERNATIVES TO DOMESTIC VIOLENCE. 2 Credits.
Cross listed: WMST 377.
Working to interrupt the cycle of violence this course analyzes theories relevant to issues of domestic violence in their historical, legal and cultural contexts.

SOWK 378. HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I. 4 Credits.
Pre-requisites: BASW major.
Employs a systems framework for using biopsychosocial research findings, theories and related knowledge to understand the development and behavior of individuals and families. Examines the reciprocal influences of culture, social injustice, poverty and related phenomena on development and behavior. Critically assesses the related research.

SOWK 379. HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II. 4 Credits.
Pre-requisites: BASW major.
A continuation of the approach to understanding the biopsychosocial influences on development and behavior taken in SOWK 378.

SOWK 381. DIVERSITY AND SOCIAL WORK. 4 Credits.
Pre-requisites: BASW Major.
This course emphasizes the development of a knowledge base and skills for working in a diverse society at both the direct and indirect practice levels. Diverse populations refers mainly to major ethnic/racial groups although other oppressed populations will be addressed. While brief descriptive materials are explored for each population, a primary critical task is the examination of one's own attitudes and values. Models of evidence-based practice with diverse populations will be presented for comparative purposes. Various experiential techniques may be used to implement the teaching objectives.

SOWK 395. EXPERIENTIAL LEARNING. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individualized learning and career development through an off-campus internship. Designed to help students develop beginning knowledge of agency work. Does not substitute for Field Practicum but gives added preparation to students with minimal work experience.

SOWK 399. SPECIAL STUDIES. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

SOWK 420. CONFLICT MANAGEMENT. 4 Credits.
This course provides an introduction to the theory and practice of conflict management in four contexts: intrapersonal, interpersonal, groups and societal. The focus is on the analysis and practical management of conflict as a common denominator linking a wide variety of human activities. A micro to macro overview of the dynamics of conflict management from one-on-one communication to the practices of negotiation and mediation to international/global efforts toward peace will be explored.

SOWK 421. SOCIAL WORK PRACTICE WITH MEN AND FAMILIES. 2-4 Credits.
This course addresses important information regarding social work services with men and their families. It is designed to be a broad overview of common issues faced by men who come to the attention of social services and what social workers can do to support and engage with men in practice.

SOWK 422. SPIRITUALITY AND SOCIAL WORK PRACTICUM. 2-4 Credits.
This overview of spirituality and social work provides a framework of knowledge, values and skills for spiritually sensitive social work practice and prepares students to respond competently and ethically to diverse spiritual perspectives through a comparative, critically reflective approach.

SOWK 424. INTERNATIONAL SOCIAL WORK. 4 Credits.
Notes: may be repeated for credit when title varies.
Pre-requisites: permission of instructor.
This variable topic course will provide students with a cross cultural experience in which they will learn about another culture, social development and various ideologies of social welfare. Students will learn about social development strategies intended to address specific social problems and social justice issues.

SOWK 425. FAMILY VIOLENCE. 4 Credits.
Cross listed: WMST 425.
Pre-requisites: ENGL 201.
This interdisciplinary course addresses contemporary concerns about family violence and discusses feminist perspectives on violence in the family. Theories about the historical and socio-cultural context of family violence and other explanatory theories provide frameworks for understanding personal and societal responses to family violence. Discussions include dynamics of trauma and recovery and all forms of family violence. Treatment as well as intervention, prevention, and social change approaches are discussed on both the personal and societal level.

SOWK 437. INDIAN CHILD WELFARE. 5 Credits.
Cross listed: IDST 437.
Satisfies: Cultural and Gender Diversity in the U.S.
This course introduces Indian Child Welfare (ICW) with an emphasis on understanding legal, historical, and cultural issues applying to work with American Indian and Alaska Native families. This course describes ICW as a method of culturally appropriate child welfare practice that draws on traditions of American Indian and Alaska Native nations. Many elements of ICW may serve as evidence-based best practice principles for child welfare. The Indian Child Welfare Act of 1978 (ICWA, United States Code Title 25, §1901-1963) is central to this course and child welfare practice.

SOWK 445. BEHAVIORAL AND COGNITIVE BEHAVIORAL INTERVENTIONS. 4 Credits.
Pre-requisites: SOWK 475.
This course introduces participants to the theory and practice of behavioral and cognitive behavioral intervention. This course facilitates participants understanding of key concepts of applied behavior analysis, including behavioral assessment, behavioral interventions methods for monitoring the efficacy of behavioral approaches with individual cases. This course will also enable participants to become better acquainted with how to apply cognitive behavioral (CB) principles in assessment and intervention, including identifying self-defeating cognitions and cognitive restructuring. Participants should come to understand behavioral and cognitive behavioral interventions as individualized approaches to practice. The applied nature of this course requires a commitment from participants to attend all class sessions during this course.
SOWK 448. LGBTQ ISSUES FOR THE PROFESSIONAL. 4 Credits.
Cross listed: WMST 448.
Pre-requisites: junior standing.
The course is designed to assist professionals working with individuals whose identity includes lesbian, gay, bisexual, transgendered or queer/questioning. Topics include: historical oppression, “coming out” as a process, counseling approaches and resources, and social inclusion and exclusion of sexual minorities. Personal attitudes are explored in order to improve professional response to the needs of the LGBTQ communities.

SOWK 450. WOMEN AND SOCIAL CHANGE. 4 Credits.
Cross listed: WMST 450.
Pre-requisites: junior standing.
This course examines the historical and contemporary role of women as leaders and participants in U. S. social movements. The course critiques the models and strategies used to organize communities and groups to improve the status of marginalized people.

SOWK 452. GENDER AND SEXUAL ASSAULT. 4 Credits.
Cross listed: WMST 452.
Pre-requisites: ENGL 201.
This course addresses contemporary concerns about sexual assault, primarily, but not exclusively, against women. Feminist perspectives on gender socialization and sexual violence provide frameworks for understanding personal and societal responses to sexual violence. Dynamics of trauma and recovery, treatment, prevention and change strategies will be discussed.

SOWK 455. SOCIAL POLICY AND PROGRAMS IN AGING. 3 Credits.
Cross listed: AGST 455.
Pre-requisites: AGST 310 or permission of the instructor.
Social welfare policies and programs serving the aging are examined, past and present, in terms of their overall impact on the aged and on society at large. The needs and gaps in services to the aged are evaluated, as well as the adequacy with which these services are delivered and the response of programs and services to the changing needs of the aged.

SOWK 456. THE OLDER WOMAN. 4 Credits.
Cross listed: AGST 456, WMST 456.
Pre-requisites: junior standing.
This course examines the research and practice knowledge on the social, economic and health problems confronting older women. Older women’s needs and potential for change are considered. The course explores U.S. social policy and program alternatives that work to improve the status and quality of life for a growing and diverse population of older women.

SOWK 457. CLINICAL ASSESSMENT IN MIDLIFE AND OLDER ADULTS. 4 Credits.
Cross listed: AGST 457.
Pre-requisites: junior standing or permission of the instructor.
An introduction to the assessment skills required for professional social work practice in mental health and other clinical settings dealing with the elderly. The course is intended for social work practitioners.

SOWK 458. PERSPECTIVES ON DEATH AND DYING. 4 Credits.
Cross listed: AGST 458.
This course is designed to assist students in the helping professions who wish to work with the terminally ill. Focus will be on an increased ability to deal with one’s own mortality; the development of beginning skills for working with the terminally ill and their families; an understanding of the complex social system which surrounds death in modern America; as well as the current moral, ethical and philosophical issues in the field.

SOWK 459. SURVEY OF MICROSYSTEMIC PRACTICE THEORIES. 4 Credits.
Pre-requisites: BASW major.
This survey course prepares students for professional practice involving the dynamic and interactive processes of engagement, assessment, intervention and evaluation through identifying and analyzing evidence-based interventions designed to achieve client goals. Students will distinguish, appraise and integrate multiple sources of knowledge, including research-based knowledge and practice wisdom, as these inform micro systemic practice theories. Students will continue learning to use research evidence to inform practice through critical thinking.

SOWK 468. SOCIAL WORK RESEARCH. 4 Credits.
Pre-requisites: BASW major.
Prepares students to evaluate research findings and to engage in evidence based social work practice.

SOWK 469. DATA ANALYSIS FOR SOCIAL WORK. 4 Credits.
This course covers descriptive and inferential statistics. Students are introduced to software for data analysis.

SOWK 470. SOCIAL POLICY ANALYSIS. 4 Credits.
Pre-requisites: BASW major.
Introduction to social policy analysis and the social policy process. Examines various policies and processes of social legislation in terms of their impact on social service programs.

SOWK 471. HUMAN RIGHTS AND WOMEN’S RIGHTS. 4 Credits.
Cross listed: WMST 471.
Pre-requisites: junior standing.
The course examines the history of human rights and dignity using the declaration of rights by the United Nations and research and initiatives by the World Health Organization and other international human rights groups. The course covers topics on the human rights of women and children including health, food insecurity, economic status, housing, education, violence, war crimes and residency/citizenship status. It also examines international and national strategies for furthering human rights on the global stage.

SOWK 472. SOCIAL WORK WITH VETERANS AND MILITARY FAMILIES. 4 Credits.
Pre-requisites: BASW major.
Notes: may be stacked with SOWK 564.
Due to the wars in Afghanistan and Iraq, there is an increased need for social workers to be prepared to work with veterans and military service members. Over a million soldiers have been deployed to Iraq and Afghanistan and nearly half of those soldiers are National Guard or Reserve members. As soldiers continue to deploy and return from service overseas, they and their families’ needs for professional social work services will continue to increase. Furthermore, only a proportion of military service members who seek services will seek them through the Department of Veterans Affairs. This means that social workers in all areas of practice need to be educated about working with military service members and their families. This course includes content on military culture, strengths and needs of military families, and interventions for military service members and their families.
SOWK 475. SOCIAL WORK ENGAGEMENT AND ASSESSMENT I. 4 Credits.
Pre-requisites: BASW major.
In this first of a two course sequence relationship building skills are emphasized to begin gathering and interpreting biopsychosocial data on the interactions between individuals, families, and other groups and their environments. Emphasizes culturally competent, strengths-based and systems oriented assessment. Demonstrates how social work values and the generalist perspective guide engagement. Explores the role of self in helping process.

SOWK 476. SOCIAL WORK ENGAGEMENT AND ASSESSMENT II. 4 Credits.
Pre-requisites: BASW major.
In this second of a two course sequence assessment skills are emphasized for gathering and interpreting biopsychosocial data on the interactions between individuals, families, and other groups and their environments. Emphasizes culturally competent, strengths-based and systems oriented assessment. Demonstrates how social work values and the generalist perspective guide assessment. Explores the role of self in helping process.

SOWK 477. SOCIAL WORK WITH COMMUNITIES. 4 Credits.
Pre-requisites: BASW major.
This course prepares students to engage with, assess the needs and assets of and plan for action with communities. This course also guides students in experiences of direct assessment and action in the context of community. Students will learn to apply Asset Based Community and Social Development models in their work with communities toward social justice and sustainable change in communities and services.

SOWK 478. SOCIAL WORK WITH INDIVIDUALS. 4 Credits.
Pre-requisites: BASW major.
Applies the assessment information obtained in SOWK 475 and SOWK 476 to social work interventions with individuals. Emphasizes culturally competent interventions which build on strengths and resources in multiple environments. Continues examination of self in role of change agent.

SOWK 479. SOCIAL WORK WITH GROUPS. 4 Credits.
Pre-requisites: BASW major.
This course focuses on the social work skills for working with groups. Values, use of self, cultural competence, strengths and resources continue to be important practice skills within this new context. Critical thinking and effective communication are additional foci for knowledge and skill development.

SOWK 480. FIELD PREPARATION. 1 Credit.
Notes: graded Pass/Fail.
Pre-requisites: BASW Major.
This course prepares students to enter the social work practicum/ seminar. Students will learn how to create a résumé, be interviewed for an agency placement and learn how to be a student worker within a social service environment. Students will integrate their knowledge and skills with practices in the agency.

SOWK 481. PRACTICUM SEMINAR II. 1 Credit.
Integrates classroom knowledge and skills with real world social agency tasks and processes student experiences in the practicum. Because the student will be asked to perform different tasks at this stage in practicum learning, the content of the seminar will likewise change. Continued emphasis on application and fit of social work values in the real world.

SOWK 482. PRACTICUM/SEMINAR. 1-6 Credits.
Notes: Graded Pass/Fail. Must be repeated three times for a total of 15 credits.
Pre-requisites: BASW major in good standing and SOWK 480. Students integrate coursework in a practice setting and process agency experience in a seminar setting. In a social work agency, students, agency field instructors and faculty field instructors plan activities which support the development of generalist skills as specified in individualized learning agreements.

SOWK 483. PRACTICUM II. 7 Credits.
In Block Practicum II, students integrate course work in a practice setting. In a social work agency, students, agency field instructors, and faculty field instructors plan activities which support the development of generalist skills as specified in individualized learning contracts.

SOWK 490. SOCIAL WORK SENIOR CAPSTONE. 4 Credits.
Notes: this course should be taken in the student's final quarter in the BASW program.
Pre-requisites: senior and in good standing as a BASW major.
Satisfies: senior capstone university graduation requirement.
This course further develops students' applied knowledge and skill in the domains of critical, integrative, multidimensional and contextual thinking; cultural competence; social work practice with populations at risk; civic mindedness; professional identity; problem solving; the ability to understand the connection between social policy, social problems and social work practice; and evidence based social work practice.

SOWK 492. CHILD WELFARE PROGRAMS AND SERVICES. 5 Credits.
The function and purposes of child welfare programs, public and private; child welfare legislation; trends in child welfare services. Elective.

SOWK 496. EXPERIMENTAL COURSE. 1-6 Credits.
Experimental course, title and credits vary.

SOWK 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Short duration programs of contemporary significance in societal-cultural behavior areas. The range and scope of topics are essentially interdisciplinary, and students from all academic areas are eligible to participate.

SOWK 498. DEPARTMENTAL SEMINAR. 1-5 Credits.
Notes: may be repeated once for credit.
Readings and evaluations in contemporary issues in social welfare. Elective.

SOWK 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Independent study in selected areas of social work. Open to seniors and graduate students from any department. Elective.

SOWK 525. RESEARCH METHODS FOR PROGRAM AND PRACTICE EVALUATION. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
An overview of methods and procedures for conducting research in social work. Attention is given to research designs for evaluating social work practice with small systems and social welfare programs. Students learn to critically evaluate and utilize research, select research instruments, and design applied research projects.
SOWK 526. RESEARCH METHODS II. 4 Credits.
Pre-requisites: SOWK 525 and 2 credits of SOWK 571; or SOWK 561.
This course facilitates the integration of foundation year research knowledge into a form that readily applies to professional social work practice. Students will learn how to apply and utilize research data through an exploratory best practice model and other models by deconstructing existing research.

SOWK 530. ORGANIZATIONAL AND COMMUNITY PRACTICE. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
This course explores the nature of community organizations and social service delivery systems and their relationships to other community systems. Attention is given to understanding the dynamics of power, economics, politics, and social policies impacting the life of organizations and communities. Students are introduced to ways of assessing organizations and communities with a particular emphasis on community collaborative networks and partnership projects that impact direct service delivery for at-risk populations in urban and rural contexts.

SOWK 531. INTRODUCTION TO SOCIAL WELFARE AND POLICY. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
This course provides students with a foundation understanding and appraisal of social welfare policies and programs in the United States, and the historical and contemporary forces that have shaped their development. It introduces core concepts to provide both an understanding of the political process and the analytic skills needed to further the achievement of social work goals regarding social policies and programs. The course also reviews the development of the social work profession and its influence on social welfare policies.

SOWK 532. FOUNDATIONS OF PROFESSIONAL SOCIAL WORK PRACTICE. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
This course provides a framework for understanding the mission and purpose of social work practice, the historical roots and ethical foundations for the profession, and emerging themes and models of practice. The course highlights required theoretical knowledge for informed practice, advanced generalist practice principles, and the specific roles in day-by-day professional practice. Cultural competence as an essential element of practice is also emphasized. The course introduces students to the challenges of graduate social work education and to the professional culture of social work, typified by NASW, its professional organization.

SOWK 533. SOCIAL WORK ASSESSMENT AND PRACTICE WITH INDIVIDUALS AND FAMILIES. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
Examines individual and family intervention within American social systems across ethnic, social, class and gender differences. Students learn effective strengths-based interviewing processes with individuals and families and build communications skills. The organizing framework for intervention is ecological systems and a strengths perspective. Current practice models that incorporate the organizing framework are reviewed for their application to specific problem situations.

SOWK 534. HUMAN RIGHTS AND WOMEN'S RIGHTS. 4 Credits.
This in an interdisciplinary course for students in social work and women's studies, who are interested in how human rights standards can be understood and applied in social work and civic life. The purpose of this course is to explore how the promotion of human rights relates to the mission of social work and women's studies and how this knowledge can affect social change efforts and promote civil society.

SOWK 536. SPIRITUALITY AND SOCIAL WORK PRACTICE. 4 Credits.
This overview of spirituality and social work provides a framework of knowledge, values and skills for spiritually sensitive social work practice and prepares students to respond competently and ethically to diverse spiritual perspectives through a comparative, critically reflective approach.

SOWK 537. INDIAN CHILD WELFARE. 4 Credits.
This course provides an introduction to Indian child welfare with an emphasis on understanding legal, historical and cultural issues applying to work with American Indian and Alaska Native youth. This course emphasizes Indian child welfare issues relevant to the Pacific Northwest (Washington, Idaho, Oregon and Montana).

SOWK 538. INTERNATIONAL SOCIAL WORK. 4 Credits.
Pre-requisites: special permission of the instructor.
International Social Work provides students with a cross-cultural experience in which they will learn about various cultural norms, social development and ideologies of social welfare from the unique perspective of the area visited. Students will learn about social development strategies intended to address specific social problems and social justice issues relevant to the native population of the region.

SOWK 540. HUMAN DEVELOPMENT IN CONTEMPORARY ENVIRONMENTS. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
Research and theory about contexts and interactions influencing human development over the life course. Emphasis on understanding life course development in oppressed, vulnerable, and underserved populations. Critical attention is paid to the use and limits of research and theory in relation to these populations.

SOWK 541. SOCIAL WORK PRACTICE IN A DIVERSE SOCIETY. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
For purposes of this course, diverse populations refers mainly to ethnic groups; however, other diverse groups are discussed. After brief descriptive materials are presented for each population, the course emphasizes the development of a knowledge base and skills for working with diverse populations at both the direct practice and macro levels. A primary critical skill is the examination of one's own attitudes and values. Models of practice with diverse populations are presented for comparative purposes.

SOWK 542. SOCIAL WORK IN CHILD WELFARE. 4 Credits.
SOWK 543. ALTERNATIVES TO DOMESTIC VIOLENCE. 2-4 Credits.
Analyzes theories relevant to issues of domestic violence in their historical, legal and cultural contexts. Therapeutic interventions are explored.

SOWK 544. SPECIAL PROBLEMS: FAMILY VIOLENCE. 4 Credits.
Students will identify factors related to stress in families, socioeconomic and cultural patterns, historical traditions and societal values and investigate how these may relate to violent behavior.
SOWK 545. BEHAVIORAL AND COGNITIVE BEHAVIORAL INTERVENTIONS. 4 Credits.
This course will introduce participants to the theory and practice of behavioral and cognitive-behavioral intervention. The course will facilitate participants understanding of (1) key concepts of behavior modification, including reinforcement, punishment and extinction; (2) key concepts of behavioral assessment, including target behaviors, antecedents and consequences, as well as dimensions of behavior (frequency, intensity, duration); (3) types of behavioral interventions, including conditioning, shaping and behavior-maintenance schedules; and (4) methods for monitoring the efficacy of behavioral approaches with individual cases. This course will also enable participants to become better acquainted with how to apply cognitive behavioral (CB) principles in assessment and intervention, including (1) behavioral self-monitoring, successive approximation, identifying self-defeating cognitions, cognitive restructuring and working with cognitive schemata; (2) implementing CB principles in a group setting using the Adolescent Coping with Depression Course (CWD-A) as a model; and (3) supporting and monitoring the progress of the clients in CB intervention through the use of CWD-A homework assignments. Participants should come to understand behavioral and cognitive-behavioral interventions as ideographic, as opposed to homothetic, approaches to practice.

SOWK 546. MINDFULNESS AND ACCEPTANCE APPROACHES IN BEHAVIORAL HEALTH. 4 Credits.
Pre-requisites: current MSW student or by permission of instructor.
This intensive course will introduce participants to the theory and practice of acceptance and mindfulness applications in cognitive behavioral interventions. The course will facilitate participants understanding of; (1) key concepts of cognitive behavioral therapy, including acceptance and mindfulness approaches, (2) key concepts of assessment, including value inventories, (3) types of acceptance and mindfulness CBT interventions, including Dialectical Behavior Therapy (DBT) and Acceptance and Commitment Therapy (ACT) and (4) in-session activities and interventions to facilitate change with individuals and groups.

SOWK 547. MOTIVATIONAL INTERVIEWING. 4 Credits.
Motivational Interviewing (MI) is an effective evidence-based approach to overcoming the factors that keep people from making desired changes in their lives even after seeking or being referred to professional treatment. This course reviews the conceptual and research background supporting MI and the Transtheoretical Model (Stages of Change-SOC) and provides practice in implementing the skills involved in their approaches.

SOWK 550. SOCIAL WORK WITH GROUPS. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
The course develops knowledge and skills for social work practice with groups and natural helping systems. Prepares students to utilize mutual aid groups as a helping resource for clients, facilitate treatment groups, and participate effectively as a member of committees, interagency teams, and other task groups. The practice of work with groups is presented through lecture and discussion, observational assignments, role plays, and participation in small group learning experiences.

SOWK 551. WOMEN AND SOCIAL CHANGE. 4 Credits.
This course examines the historical and contemporary role of women as leaders and participants in U. S. social movements. The course critiques the models and strategies used to organize communities and groups to improve the status of marginalized people.

SOWK 552. ORGANIZATIONAL LEADERSHIP, MANAGEMENT AND CHANGE. 4 Credits.
This course focuses on leadership and change in social service agencies in relationship to the roles and functions of managers and administrators. The course provides a general overview of administrative and supervisory functions in social agencies focusing on the knowledge, values and skills needed for managing change and providing leadership. These are the qualities needed for successful administrative practice in first line and middle management positions and in small agencies typically found in rural and regional contexts.

SOWK 553. SOCIAL WORK INTERVENTION AND EVALUATION WITH INDIVIDUALS AND FAMILIES. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
Continues social work practice knowledge and skill development for work with individuals and families. This is the second of a two-course sequence focused on the intervention, ongoing assessment and the termination and evaluation phases of the helping process. The course provides both didactic and experiential learning experiences relative to communication skills, counseling and therapy skills, and termination and practice evaluation strategies.

SOWK 554. CLINICAL ASPECTS OF HUMAN SEXUALITY. 4 Credits.
From the time of conception, there are forces continuously affecting our sexuality. This course has been developed to assist participants to develop skills to work with people as sexual beings. Self assessment by each person with regard to his or her own values should occur throughout the course. Sexual functioning and a variety of conditions affecting sexual functioning will be explored. It is intended that participants will leave this course with the basic knowledge, attitudes and skills to deal with sexual questions and concerns of clients. Course content will include: (1) basic issues in sexuality; (2) sexuality throughout the lifespan; (3) anatomy and physiology of the sexual response cycle; (4) sexual alternatives; (5) sexuality in illness and disability; (6) sexual dysfunctions; and (7) treatment issues.

SOWK 555. CONFLICT MANAGEMENT. 4 Credits.
This course provides an introduction to the theory and practice of conflict management in four contexts: intrapersonal, interpersonal, groups and societal. The focus is on the analysis and practical management of conflict as a common denominator linking a wide variety of human activities. A micro to macro overview of the dynamics of conflict management from one-on-one communication to the practices of negotiation and mediation to international/global efforts toward peace will be explored.

SOWK 557. BIOPSYCH BASES FOR HUMAN DEV. 4 Credits.
Pre-requisites: graduate standing in the MSW program or permission of the instructor.
This course focuses primarily on the biosocial aspects of human development. Biosocial development is defined as including heredity, physical traits and diseases, neurological functioning and disorders, and sexual functioning and the reciprocal relationships between biosocial development and social contexts—the meanings of gender, sexual orientation, and disability in society. The course is designed to help students gain familiarity with human physical systems, to identify their functions and to understand the implications of dysfunction. The course will also focus on disability issues and the effects of living with a disability. Students will be able to critically analyze the biosocial and cultural implications of physical functioning in people’s everyday lives and apply this understanding to professional practice.
SOWK 558. GAY/LESBIAN ISSUES FOR SW. 4 Credits.
This course is designed to assist professionals who may encounter lesbians, gays, bisexuals, persons questioning their sexuality and transgendered as clients. Students in the course will be encouraged to deal openly with their feelings and attitudes about homosexuality. Class members will be allowed to explore their motivations and resistance to working with this client group and those hostile to them and will be helped, where possible, to resolve blocks to effective social provision. Additionally, this course is designed to educate and suggest counseling approaches that might be most helpful to this client population and to explore available support systems. Issues that will receive special attention include health, problems of rural lesbians and gay men, the aging, child welfare, homophobia, the "coming out" process and societal attitudes toward gays, lesbians, questioning and transgendered populations.

SOWK 559. SCHOOL SOCIAL WORK AND SCHOOL LAW. 4 Credits.
Pre-requisites: baccalaureate degree.
This course will review Federal and State legislation as well as local policies which affect the role of the social worker in the public school. We will review how the school system functions as a part of our total society. The course will describe how social work knowledge, skills, and values provide an ecological approach to preventative, crisis, and remedial care for school children and their families.

SOWK 560. TOPICS OF SOCIAL WORK PRACTICE. 1-6 Credits.
Selected and variable content around topics related to social work and social welfare.

SOWK 561. ADV. STANDING SEM.. 6 Credits.
Pre-requisites: admission into advanced standing MSW program or permission of MSW Director.
This course provides Advanced Standing students with an overview of the foundation requirements for advanced study in the MSW program. It prepares students with additional problem formulation, sampling, data collection, measurement and research designs to complete the advanced year applied research project.

SOWK 562. SUICIDE ASSESSMENT, TREATMENT AND MANAGEMENT. 4 Credits.
Cross listed: ADST 562.
Pre-requisites: graduate standing.
This course explores the theoretical foundation in the clinical assessment, treatment and management of suicidal risk over time through case management with suicidal persons. Additionally, we will review instructions in "evidenced-based" and "best practices" for the treatment and case management with the suicidal person within the scope of practice. We also have role play exercises that include therapeutic interventions, initial treatment planning including case notes, coordination of services and referral.

SOWK 563. BRIEF INTERVENTIONS. 4 Credits.
This course is designed to help students to integrate a cognitive and practical understanding of brief intervention strategies within their practice with individuals, couples and families. Content areas include an overview of the theoretical base of the solution-focused model of intervention, the professional debate regarding the use of the short-term model, and the potential benefits of its application in the health-care reform environment.

SOWK 564. SOCIAL WORK WITH VETERANS AND MILITARY FAMILIES. 4 Credits.
This course includes content on military culture, strengths and needs of military families, and interventions for military service members and their families. The course goal is to prepare social workers to work with veterans and military service members. As soldiers continue to deploy and return from service, they and their families’ needs for professional social work services will continue to increase. This means that social workers in all areas of practice need to be educated about working with this population.

SOWK 565. FAMILY-CENTERED PRACTICE WITH POPULATIONS AT-RISK. 4 Credits.
Provides students with advanced direct practice knowledge and skills for work with populations at-risk in the context of families. Students are introduced to strategies for family-centered practice that are derived from ecological systems, developmental, behavioral, intergenerational, and cognitive practice traditions. Core concepts emphasized in the course include respect and support of family decisions, collaborative problem-solving, a strengths orientation, flexibility of approach, family empowerment, and support for families in their caregiving role.

SOWK 566. PROSEMINARS IN SOCIAL WELFARE POLICIES AND PROGRAMS. 4 Credits.
Pre-requisites: SOWK 525, SOWK 531 and 2 credits of SOWK 571; or SOWK 561.
Advanced seminars on current policy and program developments in contemporary areas of social welfare which impact populations at-risk, including health care, aging, mental health, and services to children and families. Seminars provide research and theory pertaining to social problems and institutional responses. Three domains of institutional response—legal, professional, and program—receive attention.

SOWK 569. ADVANCED SCHOOL SOCIAL WORK PRACTICE. 4 Credits.
The goal of this course is to assist the student in developing a comprehensive and in-depth understanding of current school social work practice. The values, purpose, knowledge base and sanctions which undergird the specialized, professional practice of school social work will be discussed, analyzed and applied experientially to practice situations. Learning experiences are designed to promote understanding of the many dimensions, opportunities for creative practice and rigor of social work practice in schools.

SOWK 571. FOUNDATION PRACTICUM/SEMINAR. 1-4 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: SOWK 531, SOWK 532, SOWK 553. (A total of 4 credits distributed over 2 qtrs for the full-time program and over 3 qtrs. for the part-time programs.) Students in Foundation Practicum/Seminar utilize the agency setting for integration of coursework knowledge and for the development of professional practice skills. The placement agency is the laboratory for the application of classroom learning. Practicum is a supervised experience which allows students to learn to use supervision as a professional development process and to receive feedback concerning their professional functioning. The seminar is the forum in which students share, compare and analyze the field experience and participate in learning activities focused on application of curriculum content to practice. It is designed to assist in the integration process to provide support for students in discussion of practice issues and learning experiences and to engage students in utilizing course content to enhance their professional practice.
SOWK 572. FAMILY SYSTEMS AND ILLNESS. 4 Credits.
This course examines the impact of chronic and life-threatening illness upon the functioning abilities of both healthy and troubled families, communities and health care systems. Through the lens of illness, the course looks at how families communicate, how they are structured, how they function over time and what non-illness related issues typically unbalance them. The course will focus on ways the social worker can rebalance families in the face of the chaos and unpredictability generated by illness.

SOWK 573. ALTERNATIVES IN HEALING: COMPLEMENTARY CARE IN SOCIAL WORK. 4 Credits.
This course examines the ways that people benefit from ancient and modern mind/body healing techniques that can help them deeply relax and draw upon inner strengths, alleviating much of the physical, emotional, cognitive and spiritual suffering associated with chronic or acute illness and dying.

SOWK 574. DEATH AND DYING. 4 Credits.
This course explores issues related to death, dying, grief and loss as well as their relevance and application to social work practice. The content draws from an interdisciplinary knowledge base and emphasizes the acquisition of practice skills. Topics include loss events throughout the life span; psychological and sociological theoretical perspectives in death, dying, grief and loss; social work practice models in grief, loss and coping with terminal illness; the impact of individual differences and cultural diversity on reactions to loss-related events; available resources for those dealing with these issues, and policy and ethical implications related to end-of-life care and decision making.

SOWK 575. ADVANCED SOCIAL WORK PRACTICE WITH CHILDREN AND ADOLESCENTS. 4 Credits.
Advanced practice strategies and techniques for current problems facing children, youth and families. Students will apply assessment paradigms to case situations and design appropriate intervention strategies based on contemporary practice theory. Direct practice knowledge and skills will be evaluated through experiential and written assignments.

SOWK 576. ADDICTION: A BIOPSYCHOSOCIAL APPROACH. 4 Credits.
This course applies the biopsychosocial perspective to the addiction field. The emphasis is on an examination of the reciprocal interaction between the individual experiencing addiction and the various systems that impact misuse, addiction, treatment and recovery. Topics will include harm reduction, the biology of addiction, the psychology of addiction, co-existing disorders and social aspects of addiction, including family risks and resilience, racial and ethnic issues, gender and sexual orientation, the nature of mutual help groups and public policy issues. The content of the course will draw heavily on current research and emphasize critical thinking and analysis of the current controversies in the addiction field. The overall framework of the course rests on the foundation of the strengths perspective and client-centered practices. Although alcohol and drug problems will be emphasized, the course will also address other related disorders, including eating disorders, pathological gambling and compulsive shopping.

SOWK 577. CLINICAL SOCIAL WORK ASSESSMENT. 4 Credits.
Examination of the assessment skills required for professional social work practice in mental health and other professional settings. Application of mental health diagnosis and clinical assessment techniques to case situations.

SOWK 579. GENDER AND SEXUAL ASSAULT. 4 Credits.
This course addresses contemporary concerns about sexual assault primarily, but not exclusively against women. Theories about the sociocultural context of gender socialization and other explanatory theories will provide a framework for understanding personal and societal responses to sexual violence. The course will survey all forms of sexual violence and discuss dynamics of trauma and recovery. Treatment approaches will be discussed as well as the importance of prevention and change strategies on both the personal and the societal level.

SOWK 580. FIELD PREPARATION. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing in the MSW program or permission of instructor.
This course serves as an introduction to field practicum and to a community agency setting. It provides the students with the necessary information, skills and practices to maximize their success in their field practicum.

SOWK 581. INTEGRATIVE SEMINAR I. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing in the MSW program or permission of MSW graduate director.
This seminar is the forum in which students share, compare and analyze their social work educational experience and participate in learning activities focused on application of curriculum content for the comprehensive exam. It is designed to assist in the integration process, to provide support for students in discussion of learning experiences and to engage students in utilizing course content to enhance their professional practice.

SOWK 582. INTEGRATIVE SEMINAR II. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing in the MSW program or permission of MSW graduate director.
This seminar is the forum in which students share, compare and analyze their social work educational experience and participate in learning activities focused on application of curriculum content for the comprehensive exam. It is designed to assist in the integration process, to provide support for students in discussion of learning experiences and to engage students in utilizing course content to enhance their professional practice.

SOWK 583. INTEGRATIVE SEMINAR III. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing in the MSW program or permission of MSW graduate director.
This seminar is the forum in which students share, compare and analyze their social work educational experience and participate in learning activities focused on application of curriculum content for the comprehensive exam. It is designed to assist in the integration process, to provide support for students in discussion of learning experiences and to engage students in utilizing course content to enhance their professional practice.
SOWK 584. INTEGRATIVE SEMINAR IV. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing in the MSW program or permission of MSW graduate director.
This seminar is the forum in which students share, compare and analyze their social work educational experience and participate in learning activities focused on application of curriculum content for the comprehensive exam. It is designed to assist in the integration process, to provide support for students in discussion of learning experiences and to engage students in utilizing course content to enhance their professional practice.

SOWK 596. EXPERIMENTAL COURSE. 1-5 Credits.

SOWK 597. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Notes: only one workshop course for up to 3 credits may be used to fulfill graduate degree requirements.

SOWK 599. INDEPENDENT STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Students take intensive and independent study of some special area in social work or social welfare.

SOWK 600. THESIS. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Elective course.

SOWK 601. RESEARCH PROJECT. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individually supervised research work.

SOWK 602. CLINICAL DIAGNOSIS AND EVIDENCE BASED TREATMENT. 4 Credits.
Pre-requisites: SOWK 553 or currently enrolled in SOWK 561.
This course examines evidence-based treatments across the lifespan from a social work perspective, with a specific focus on the most common mental disorders and evidence-based treatments. Students will demonstrate application of the most current version of the Diagnostic and Statistical Manual of Mental Disorders and become critical consumers of evidence-based treatment research with diverse populations. The course emphasizes strengths and ecological systems perspectives, risk and resiliency factors, and the impact of biological, psychological, cultural, spiritual and other social factors.

SOWK 603. LEADERSHIP AND MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS. 4 Credits.
Pre-requisites: SOWK 530 or SOWK 561.
This course is designed to expand students’ knowledge and understanding of human service organizations and to provide approaches for designing and managing human service programs effectively. Organizational and management theories and principles are applied to a range of human services. The course focuses on the knowledge, values and skills needed for successful leadership in creating a meaningful work environment, managing organizational outcomes, and engaging the community.

SOWK 671. ADVANCED PRACTICUM/SEMINAR. 1-5 Credits.
Notes: graded Pass/No Credit.
Pre-requisites: SOWK 571 or SOWK 561.
(A total of 13 credits distributed over three quarters for the full-time program and over five quarters for the part-time programs). Advanced Practicum/Seminar is a continuation of the Foundation Practicum/Seminar. Students in Advanced Practicum/Seminar will utilize the agency setting for integration of coursework knowledge and for the development of professional practice skills. The placement agency is the laboratory for the application of classroom learning. Practicum is a supervised experience which allows students to learn to use supervision as a professional development process and to receive feedback concerning their professional functioning. The seminar is the forum in which students share, compare and analyze the field experience and participate in learning activities focused on application of curriculum content to practice. It is designed to assist in the integration process to provide support for students in discussion of practice issues and learning experiences and to engage students in utilizing course content to enhance their professional practice.

SOWK 695. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

Sociology (SOCI)

SOCI 101. INTRODUCTION TO SOCIOLOGY. 5 Credits.
Satisfies: GECR for social sciences, list 2, anthropology, geography, psychology and sociology.
Explores the concepts, principles and theories of sociology. Sociology seeks to develop a body of interrelated scientific propositions or generalizations that explain social behavior in non-psychological terms. Its basic goal is to understand how human beings fit their activities together into a system of stable (and sometimes unstable) social arrangements.

SOCI 195. INTERNSHIP. 1-5 Credits.

SOCI 263. SOCIAL PROBLEMS. 5 Credits.
Satisfies: international studies university graduation requirement.
An overview of major perspectives on social problems and a demonstration of their relevance for contemporary issues. Topics may include poverty, racism, sexism, aging, alienation, colonialism and the Third World, human ecology, crime, deviance and the law.

SOCI 290. INTRODUCTION TO STUDENT SERVICES. 2 Credits.
Notes: graded Pass/Fail.
Pre-requisites: must be admitted as an ambassador.
A history of the university and campus. An overview of the university curricula and range of student services with emphasis on the development of leadership and communication skills. Lab.

SOCI 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

SOCI 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor and the department chair.

SOCI 301. SURVEY OF CRIMINOLOGY. 5 Credits.
Pre-requisites: SOCI 101.
Provides an introduction to the field of criminology, including descriptions and explanations of crime and efforts to control it. Topics include theories of crime causation, measurement of crime, criminal law, the criminal justice system, and street, victimless, white collar, political and corporate crime.
SOCI 320. RACE AND ETHNIC RELATIONS: GLOBAL PERSPECTIVES. 5 Credits.
Pre-requisites: SOCI 101.
Satisfies: cultural and gender diversity university graduation requirement. A socio-structural analysis of the bases of oppression of minority groups in society. The course deals with economic, political and cultural factors involved in the emergence and perpetuation of racism/ethnocism in the United States and around the world.

SOCI 321. SEX AND GENDER. 5 Credits.
Cross listed: WMST 321.
Pre-requisites: SOCI 101
Satisfies: cultural and gender diversity university graduation requirement.
A sociological analysis of differences and similarities between women and men. Examines the impact of gender ideologies of individual identity and social and political arrangements (especially instances of stratification and inequality). Also considers how changes in the gendered nature of society (e.g., socioeconomic organization, socialization, sexuality) occur.

SOCI 331. CLASSICAL SOCIOLOGICAL THEORY. 5 Credits.
Pre-requisites: SOCI 101.
Establishes the nature and requirements of sociological explanation. Identifies main currents of preclassical social thought. Explains, discusses and evaluates classical systems of sociological theory.

SOCI 351. SOCIAL STRATIFICATION. 5 Credits.
Pre-requisites: SOCI 101.
Course investigates class structures, statification systems, and social mobility in contemporary American society.

SOCI 357. METHOD FOR SOCIAL RESEARCH. 5 Credits.
Pre-requisites: SOCI 101.
This course seeks to realize two complementary objectives: First, to acquaint you with the origins of sociological inquiry and the variety of styles and logical systems which shape such research; secondly, to demonstrate the nature of the research techniques which follow.

SOCI 362. SOCIOLOGY OF POLITICS. 5 Credits.
Pre-requisites: SOCI 101.
Analyzes causes and consequences of the distribution of power within and between societies and with the social and political conflicts which lead to changes in the distribution of power.

SOCI 363. SOCIOLOGY OF DEVIANCE. 5 Credits.
Pre-requisites: SOCI 101.
Examines the conditions under which deviance as a social reality emerges, develops, and changes over time. Typical concerns are the process of social typing; official responses to deviances; managing the deviant identity; and the role of bureaucracies and social class in promoting deviance as a political construction.

SOCI 370. SOCIOLOGY OF THE FAMILY. 5 Credits.
Cross listed: WMST 370.
Pre-requisites: SOCI 101.
A consideration of family structures, cultures and interactions, changing family patterns and contemporary family debates.

SOCI 371. AFRICAN AMERICAN FAMILY. 5 Credits.
Cross listed: AAST 320, SOWK 320.
The African American family as a social system influenced by institutions of the larger American society.

SOCI 395. CO-OP FIELDWORK. 1-15 Credits.

SOCI 396. EXPERIMENTAL COURSE. 1-5 Credits.

SOCI 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

SOCI 398. SEMINAR. 1-5 Credits.

SOCI 399. SPECIAL STUDIES/PROGRAMS. 1-5 Credits.
Pre-requisites: permission of the instructor and the department chair.

SOCI 452. JUVENILE DELINQUENCY. 5 Credits.
Pre-requisites: SOCI 101.
Provides an in-depth examination of the phenomenon of juvenile delinquency. Included in the examination are analyses of types of delinquency, measurement of delinquency, theories of delinquency causation, and the juvenile justice system. Includes field trips and class visitsations from professionals who work with juveniles.

SOCI 455. CRIMINOLOGICAL THEORY. 5 Credits.
Pre-requisites: SOCI 301.
Provides an in-depth inquiry into crime and criminalization. Course places particular emphasis on the social context within which these phenomena occur.

SOCI 459. SOCIOLOGY OF COMMUNITY CORRECTIONS. 5 Credits.
Pre-requisites: SOCI 101.
Provides a sociological examination of correctional programs and practices in non-institutional settings for both adults and juveniles. Topics include program alternatives to institutional commitment, reintegration of offenders after institutionalization, the community corrections officer, and the process of working with offenders. Field trips to area agencies are also included.

SOCI 463. COMPLEX ORGANIZATIONS. 5 Credits.
Pre-requisites: SOCI 101.
Analyzes large, complex organizations as a social system. Includes theory related to the emergence and structure of bureaucracacy, authority and control; organizational conflict and change; the individual and the organization; and the organization and its environment.

SOCI 465. CONTEMPORARY SOCIOLOGICAL THEORY. 5 Credits.
Pre-requisites: SOCI 101.
Establishes the nature and requirements of sociological explanation. Identifies the classical repertoire of contemporary sociological theories. Explains, discusses and evaluates contemporary systems of sociological theories.

SOCI 470. SOCIAL CHANGE. 5 Credits.
Pre-requisites: SOCI 101.
This course examines change in everyday life as well as in social institutions. Our discussions will focus on the importance of social movements in creating and responding to cultural and political transformations in the past, present and future.

SOCI 471. SOCIOLOGY OF WORK. 5 Credits.
Pre-requisites: SOCI 101.
A sociology of knowledge approach to work that examines ways in which much of the conflict that characterizes the world of work arises from differing realities that individuals and groups construct. Also examines the major location of work, organizations, and the way work can be organized as a result of images held and the impact this organization has on the construction of reality.

SOCI 472. SOCIOLOGY OF RELIGION. 5 Credits.
Pre-requisites: SOCI 101 or advanced standing in department program.
Investigates religious institutions in society in terms of their structure, function, and change.
SOCI 481. SOCIAL PSYCHOLOGY. 5 Credits.
**Pre-requisites:** SOCI 101.
An analytic approach to the social-psychological consequences of social structure. Focal concerns may include alienation, anti-psychiatry, personality and social class, role behavior, and socialization.

SOCI 482. IDENTITY AND POWER. 5 Credits.
**Pre-requisites:** SOCI 101.
This course is about the relationship between power and identity. Identity can be defined as presentations of the self that facilitate human social interaction and thereby situate individuals in social structures. We will use the concept of power to explore how identities are central to various forms of social inequality.

SOCI 483. SOCIOLOGY OF CHILDREN. 5 Credits.
**Cross listed:** WMST 483.
**Pre-requisites:** SOCI 101.
Addresses children and childhood from the preschool years through adolescence. Examines historical shifts in the meanings of childhood and the methods used for studying the worlds of children. Explores the theoretical approaches to child development and socialization and how these can be used to understand children's experiences in different cultural settings and situations.

SOCI 485. SOCIOLOGY OF REVOLUTIONS. 5 Credits.
Revolutions are rapid, widespread and deep transformations in the institutional structures, ways of thinking, relationships and cultural habits of society. They involve not only taking power by replacing governments, but also transforming power by radically changing people, spaces and social systems. We will first study The Communist Manifesto by Marx and Engels, arguably history's most important book on revolutions. Then we will consider nonviolent means for challenging global capitalism and promoting social justice. And finally, we will discuss whether contemporary world social forums really help make another world possible. Throughout the course, we will think about how past and present struggles shape the future of revolutions.

SOCI 486. CONTEMPORARY WORLD SYSTEMS. 5 Credits.
**Pre-requisites:** choice of either SOCI 263 or INST 200.
**Satisfies:** international studies university graduation requirement.
Course examines contemporary world systems; integration, conflict and change.

SOCI 488. SOCIOLOGY OF EDUCATION. 5 Credits.
A sociological analysis of the controversies surrounding the limits and possibilities of schooling in society. It examines, in a historic and comparative manner, the issues of educational expansions, equality of opportunity, unequal achievement and school quality, the school's role in reinforcing inequality, what schools teach, and the problems of order, control, and motivation. At all times, the material reviewed is set in a theoretical context.

SOCI 489. DOING SOCIOLOGY. 5 Credits.
**Pre-requisites:** senior standing; SOCI majors only.
This course explores the wide variety of ways one can do sociology. Students reflect on their academic journey and think critically about how they can use the sociological knowledge they have acquired. Students examine real-life examples of how individuals use sociology in their personal, community and professional life. Students conduct research on possible career paths where they can pursue their passion in sociology.

SOCI 490. SENIOR CAPSTONE: SOCIOLOGICAL PRACTICE. 5 Credits.
**Pre-requisites:** SOCI 489 or approval of instructor.
**Satisfies:** senior capstone university graduation requirement.
This course is designed to move from a basic understanding of sociological research and practice to more advanced applications in the field. Working as a team and addressing a specific social problem or issue, students will define the problem, carry out research, craft and/or evaluate strategies and present reports in appropriate formats.

SOCI 491. SENIOR THESIS. 5 Credits.
**Pre-requisites:** SOCI 489.
**Satisfies:** senior capstone university graduation requirement.
The thesis represents a summative assessment of the student's academic competence in his or her field of study. Students will complete and defend an original research project in the field of sociology.

SOCI 495. INTERNSHIP. 1-5 Credits.
**Pre-requisites:** permission of the instructor, department chair and college dean.
Supervised field experience aligned with the student's academic program.

SOCI 496. EXPERIMENTAL COURSE. 1-5 Credits.

SOCI 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Special short-duration programs of contemporary significance in societal-cultural behavior areas. The range and scope of topics is essentially interdisciplinary and students from all academic areas are eligible to participate.

SOCI 498. SEMINAR. 1-5 Credits.
**Notes:** may be repeated once for credit.
Examination of current research topics in sociology. The specific content of the seminar varies according to recent developments in sociology and according to the interests of the instructor.

SOCI 499. DIRECTED STUDY. 1-15 Credits.
**Pre-requisites:** permission of the instructor, department chair and college dean.
Independent and/or group study in selected areas of sociology.

SOCI 599. INDEPENDENT STUDY. 1-10 Credits.

Spanish (SPAN)

SPAN 101. FIRST-YEAR SPANISH I. 5 Credits.
The beginning Spanish sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

SPAN 102. FIRST-YEAR SPANISH II. 5 Credits.
**Pre-requisites:** SPAN 101 or equivalent.
The beginning Spanish sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

SPAN 103. FIRST-YEAR SPANISH III. 5 Credits.
**Pre-requisites:** SPAN 102 or equivalent.
The beginning Spanish sequence of courses, covering grammar, composition, conversation and discussion of cultural topics.

SPAN 113. SPECIAL TOPICS IN SPANISH. 5 Credits.
**Pre-requisites:** SPAN 102
This is a supplemental first year course, covering grammar, composition, reading and conversation that emphasizes discussion of cultural or social topics.
SPAN 170. INTRODUCTION TO LITERATURE. 5 Credits.
Notes: In English, no knowledge of Spanish is required.
Satisfies: GECR for humanities and fine arts, list 1, literature.
Examines, on the basis of selected Spanish works in English translation, literary approaches to human experience, including the short story, novel, poetry and drama; emphasizes the elements of literature with supporting discussion of ideas, attitudes, problems and values.

SPAN 196. EXPERIMENTAL COURSE. 1-5 Credits.

SPAN 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

SPAN 199. SPECIAL STUDIES. 1-10 Credits.

SPAN 201. SECOND-YEAR SPANISH. 5 Credits.
Pre-requisites: First-Year Spanish or equivalent.
Intensive oral work to develop fluency, written composition and reading of medium difficulty from Spanish literature.

SPAN 202. SECOND-YEAR SPANISH. 5 Credits.
Pre-requisites: SPAN 201 or equivalent.
Intensive oral work to develop fluency, written composition and reading of medium difficulty from Spanish literature.

SPAN 203. INTRODUCTION TO ADVANCED SPANISH. 5 Credits.
Pre-requisites: SPAN 202 or equivalent.
Grammar review and intensive oral work to develop fluency, written composition, and reading of medium difficulty from Spanish literature.

SPAN 296. EXPERIMENTAL COURSE. 1-5 Credits.

SPAN 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 3-5 Credits.

SPAN 299. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects vary according to faculty and student interest.

SPAN 305. SPANISH CONVERSATION AND COMPOSITION. 3 Credits.
Pre-requisites: SPAN 201 or permission of the instructor.
This course encompasses a wide range of oral and written practice. Students will develop their cultural understanding of the Spanish world while targeting the four language skills through authentic material.

SPAN 310. ADVANCED GRAMMAR AND COMPOSITION. 3 Credits.
Pre-requisites: SPAN 203 or permission of the instructor.

SPAN 311. ADVANCED GRAMMAR AND COMPOSITION. 3 Credits.
Pre-requisites: SPAN 203 or permission of the instructor.

SPAN 312. SPANISH FOR HERITAGE SPEAKERS. 5 Credits.
Pre-requisites: being a heritage speaker; take an advanced placement test.
Satisfies: cultural and gender diversity university graduation requirement.
A course oriented to Spanish heritage speakers. The course will concentrate on specific linguistic problems of the Hispanic population.

SPAN 313. SPANISH COMPOSITION FOR HERITAGE SPEAKERS. 5 Credits.
Notes: placement required through the Department of Modern Languages and Literatures.
Satisfies: cultural and gender diversity university graduation requirement.
A course oriented to Spanish Heritage Speakers. The course concentrates on specific linguistic (writing and reading) and cultural issues of the Heritage population in the USA.

SPAN 320. SPANISH CIVILIZATION. 5 Credits.
Pre-requisites: SPAN 203 or permission of the instructor.
Political, social, intellectual and artistic development of Spanish culture from the beginnings to the present day.

SPAN 321. SPANISH AMERICAN CIVILIZATION AND CULTURE. 5 Credits.
Pre-requisites: SPAN 203 or permission of the instructor.
Political, social, intellectual and artistic development of Spanish American culture with emphasis on Spanish America today.

SPAN 338. SURVEY OF SPANISH LITERATURE. 3 Credits.
Pre-requisites: SPAN 310 or SPAN 312.
Major works of literature from the Middle Ages to the present.

SPAN 339. SURVEY OF SPANISH-AMERICAN LITERATURE. 3 Credits.
Pre-requisites: SPAN 310 or SPAN 312.
Major works of literature from the period of the Colonies to the present.

SPAN 340. INTRODUCTION TO SPANISH LINGUISTICS. 3 Credits.
Pre-requisites: SPAN 310 and SPAN 311 or SPAN 312 and SPAN 313.
This course offers an introduction to the scientific study of Spanish. It will consist in an overview of descriptive linguistics: syntax, phonetics, semantics, sociolinguistics and some aspects of the history of the Spanish language. This class will also provide an exposure to the main issues in the area of language in contact and will examine a variety of Spanish dialects spoken in the United States.

SPAN 396. EXPERIMENTAL COURSE. 1-5 Credits.

SPAN 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

SPAN 398. SEMINAR. 1-5 Credits.

SPAN 399. DIRECTED STUDY. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

SPAN 460. SPANISH POETRY. 3 Credits.
Notes: may be repeated.
Pre-requisites: SPAN 310 or SPAN 312.
Selected poems within a designated thematic or period framework. Content varies.

SPAN 473. POLITICAL AND PHILOSOPHICAL THOUGHT IN SPAIN. 3 Credits.
Pre-requisites: SPAN 310 or SPAN 312.
Readings and discussion of some of the most significant works by writers and thinkers in Spain.

SPAN 474. SPANISH TRAVEL NARRATIVE. 3-5 Credits.
Pre-requisites: SPAN 310 and SPAN 311 or SPAN 312 and SPAN 313 and SPAN 320; SPAN 321.
This course is a chronological exploration of the connections between travel narratives and the construction of Hispanic identity. Students continue to develop their cultural understanding of the Spanish speaking world while targeting the four language skills through material related to Spanish travel narratives.

SPAN 475. HISPANIC WOMEN WRITERS. 4 Credits.
Cross listed: WMST 475.
Pre-requisites: SPAN 310 or SPAN 312 and SPAN 321 or HIST 365.
This is a panoramic course that covers a wide, but representative array of Hispanic writers writings in Spanish from Latin America, Spain, Africa and the United States. Literary readings will be paired with other media in order to discuss issues of wars, revolutions, dictatorships, exile, migrations, race, class, gender, education and identity.
SPAN 477. LATIN AMERICAN FILM. 3-5 Credits.  
**Pre-requisites:** SPAN 310 and SPAN 311 or SPAN 312 and SPAN 313 and SPAN 320, SPAN 321.  
This course reviews, discusses and analyzes the history of cinema in Latin America, major trends in Latin American cinema, and Latin American history and culture through its film production. Students have the opportunity to perform a variety of linguistic skills (reading, speaking, listening and writing).

**SPAN 491. SPANISH SENIOR THESIS. 4 Credits.**  
**Notes:** graded Pass/Fail.  
**Pre-requisites:** SPAN 310 and SPAN 311 or SPAN 312 and SPAN 313 and SPAN 320, SPAN 321 and at least one literature elective and at least one literature elective.  
**Satisfies:** senior capstone university graduation requirement.  
A course oriented toward the general research of cultural and literary aspects of the Hispanic world. Each student will select a topic at the beginning of the quarter from a number of topics suggested by the instructor. Discussion, critique and analysis of the cultural and literary topics selected by the student will configure the body of the thesis. Selected bibliography will be recommended by the instructor.

**SPAN 495. INTERNSHIP/PRACTICUM. 1-15 Credits.**  
**SPAN 496. EXPERIMENTAL COURSE. 1-5 Credits.**  
**SPAN 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.**  
**SPAN 498. SEMINAR. 1-5 Credits.**  
**SPAN 499. DIRECTED STUDY. 1-5 Credits.**  
**Pre-requisites:** SPAN 310 or SPAN 312 or permission of the instructor, department chair and college dean.

### Special Education (SPED)

**SPED 360. SPECIAL EDUCATION RESEARCH METHODS. 5 Credits.**  
**Pre-requisites:** EDUC 201.  
This course provides a critical analysis of research methodologies in special education. Emphasis is placed on developing student skills in asking and answering sound research questions.

**SPED 363. INTRODUCTION TO SPECIAL EDUCATION. 4 Credits.**  
Overview of definitions, causes, characteristics and educational approaches concerning students with disabilities and exceptional students.

**SPED 399. SPECIAL STUDIES. 1-5 Credits.**  
**Pre-requisites:** permission of the instructor, department chair and college dean.  
Subjects vary according to faculty and student interest.

**SPED 412. INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION. 4 Credits.**  
**Pre-requisites:** SPED 363.  
Overview of trends and services related to providing intervention for young children with disabilities (ages 0–8) and their families.

**SPED 420. PRINCIPLES OF BEHAVIOR FOR STUDENTS WITH EXCEPTIONAL NEEDS. 4 Credits.**  
**Pre-requisites:** SPED 363.  
Overview of principles of behavior change and how they apply to students with exceptional needs.

**SPED 421. CLASSROOM MANAGEMENT IN SPECIAL EDUCATION SETTINGS. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 420.  
Covers fundamental knowledge and experiences for assessing and developing effective management strategies in special education classrooms.

**SPED 460. SPECIAL EDUCATION METHODS. 4 Credits.**  
**Pre-requisites:** SPED 363.  
Overview of the primary instructional and behavior management techniques needed to work successfully with persons with special needs.

**SPED 461. SPECIALLY DESIGNED INSTRUCTION FOR LANGUAGE ARTS. 4 Credits.**  
**Pre-requisites:** SPED 460.  
This course provides students with skills in designing explicit instruction lessons for reading, writing and spelling as well as using scientifically-validated reading, writing and spelling curricula. The focus is on using specially designed instruction for students with disabilities.

**SPED 462. METHODS FOR TEACHING STUDENTS WITH AUTISM AND SEVERE DISABILITIES. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 460.  
Covers instructional techniques used to teach skills to students with autism and severe disabilities.

**SPED 463. METHODS FOR TEACHING INFANTS AND YOUNG CHILDREN WITH DISABILITIES. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 412, SPED 460.  
Covers intervention strategies for teaching infants and young children with disabilities skills in home and center-based programs.

**SPED 464. SPECIALLY DESIGNED INSTRUCTION FOR MATH AND CONTENT AREAS. 4 Credits.**  
**Pre-requisites:** SPED 460.  
This course develops skills in designing explicit instruction lessons for math and content areas as well as using scientifically-validated math and content area curricula. The focus is on using specially designed instruction for students with disabilities.

**SPED 470. SPECIAL EDUCATION ASSESSMENT. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 460.  
Covers how to evaluate, interpret, select, develop and use formal and informal assessment tools specifically for students with special needs.

**SPED 472. ASSESSMENT OF INFANTS AND YOUNG CHILDREN WITH DISABILITIES. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 412, SPED 460.  
Covers how to evaluate infants and young children with disabilities skills in home and center-based programs.

**SPED 480. INCLUSIONARY PRACTICES AND COLLABORATION. 4 Credits.**  
**Pre-requisites:** SPED 363, SPED 460.  
Covers information and skills needed to collaborate effectively with students, educators, parents and agencies to implement appropriate special education programs.

**SPED 488. SPECIAL EDUCATION PRACTICUM. 3 Credits.**  
**Notes:** graded Pass/Fail; must be completed twice for a total of 6 credits.  
**Pre-requisites:** EDUC 200 and permission of instructor.  
Students observe and demonstrate effective teaching practices in a special education setting.
SPED 489. SPECIAL EDUCATION STUDENT TEACHING. 16 Credits.
Notes: graded Pass/Fail.
Pre-requisites: SPED 490 and permission of instructor.
Provides the student with teaching experience in a special education setting.

SPED 490. SPECIAL EDUCATION CAPSTONE. 4 Credits.
Pre-requisites: to be taken the quarter before student teaching; permission of instructor required.
Satisfies: senior capstone university graduation requirement.
This is a culminating experience for the special education major. Students are required to integrate knowledge from other courses and apply it to a variety of situations. This course is required for special education and dual endorsement majors.

SPED 491. SENIOR THESIS. 4 Credits.
Pre-requisites: invitation of the instructor/advisor.
Satisfies: senior capstone university graduation requirement; replaces ITGS 400 as a senior capstone experience.
Directed research resulting in a formal write-up. Limited to those students for whom research experience will be helpful in obtaining entrance to graduate school.

SPED 495. EXPERIENTIAL LEARNING. 1-12 Credits.
Notes: graded Pass/Fail.
Pre-requisites: permission of the instructor, department chair and college dean (interview required).
Individual learning and career development course with an off-campus internship contract coordinated through the Internship Program.

SPED 496. EXPERIMENTAL COURSE. 1-5 Credits.

SPED 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-10 Credits.

SPED 498. SEMINAR. 1-5 Credits.

SPED 499. DIRECTED STUDY. 1-10 Credits.
Notes: graded Pass/Fail.
Pre-requisites: permission of the instructor, department chair and college dean.

Technical Communication (TCOM)

TCOM 205. INTRODUCTION TO TECHNICAL COMMUNICATION. 5 Credits.
Pre-requisites: ENGL 201.
In this introduction to technical communication, students will learn the basic principles of effectively structuring information for a variety of purposes and audiences, using an applicable document type. Students will solve various communication problems individually and they will be required to work in teams to complete a research or service learning project.

TCOM 305. USABILITY AND INFORMATION DESIGN IN TECHNICAL COMMUNICATION. 5 Credits.
Pre-requisites: TCOM 205.
In this course, students learn about the principles of document design as applied in the field of technical communication. As part of the course, students learn about usability testing and conduct tests to measure the effectiveness of a document. Students work individually and in teams to complete a variety of projects, including a service learning or client-based project.

TCOM 309. GRAMMAR FOR PROFESSIONAL WRITERS. 5 Credits.
Cross listed: ENGL 309, JRNM 309.
Pre-requisites: ENGL 201.
Many professionals continue to struggle with grammar and usage rules throughout their careers. In this course, students will refresh and improve their knowledge of English grammar, style and usage rules. They will develop confidence in using correct punctuation, capitalization and verb forms, and learn how to create and employ different types of sentence structures, becoming proficient at writing clear, correct sentences to communicate effectively with a variety of audiences.

TCOM 404. INSTRUCTIONS AND PROCEDURES. 5 Credits.
Pre-requisites: TCOM 205.
In our technologically rich world, instructions and procedures pervade our professional lives. In this course, students will learn the art and practice of how to write, design, test and deliver instructions and procedures. Skills learned in this course are highly desired in a variety of settings including government, industry, corporate and non-profit agencies.

TCOM 407. PROPOSAL WRITING. 5 Credits.
Pre-requisites: ENGL 201.
Investigation of funding sources, use of government documents for research and evaluation of submitted proposals are among areas covered. Emphasis is on clear, concise writing of individualized student projects.

TCOM 409. EDITING IN TECHNICAL COMMUNICATION. 5 Credits.
Pre-requisites: ENGL 459.
This course develops the principles and practices of technical editing. Students will learn how to copy, edit and proofread a variety of technical and professional documents, using standard symbols and conventions. Students will also learn to use style sheets to track emendations and they will gain an understanding of the responsibilities of an editor to make texts effective and usable.

TCOM 490. SENIOR CAPSTONE: ISSUES IN TECHNICAL COMMUNICATION. 5 Credits.
Satisfies: senior capstone university graduation requirement.

TCOM 495. TECHNICAL COMMUNICATION INTERNSHIP. 1-15 Credits.
Notes: may be repeated.
Pre-requisites: TCOM 404, TCOM 407 and TCOM 409; permission of the instructor, department chair and college dean.
A minimum of 20 hours work per week as a student-intern in technical communication for a cooperating business, industry or agency. Students may earn from 5–15 credits.

Technology (TECH)

TECH 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

TECH 199. DIRECTED STUDY. 1-5 Credits.

TECH 208. SURVEY OF ELECTRICITY. 4 Credits.
Pre-requisites: pre-university basic skills in mathematics.
Introduces the student to direct current, alternating current (including residential wiring), and amplifying devices. (3 hours lecture, 2 hours laboratory per week)
TECH 235. CONSTRUCTION MATERIALS AND TECHNIQUES. 5 Credits.
Pre-requisites: METC 102, two years of high school drafting or equivalent.
This course introduces various materials and techniques used in
construction. Students gain an understanding of the fundamental
principles of structural, physical and long-term performance of some
of these materials through lecture and lab experiments. Students also
gain an understanding of some of the mechanical and non-mechanical
properties of various materials, common construction methods and
knowledge of material properties and applications in construction.

TECH 297. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5
Credits.

TECH 298. SEMINAR. 1-5 Credits.

TECH 299. SPECIAL STUDIES. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college
dean.

TECH 301. METALLIC PROCESSES. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
Metallic Processes is a comprehensive basic course in technical metals
which is designed to survey metalworking materials and processes
which have been developed by modern industry. The course provides
opportunity to learn the theories and scientific principles basic to the
application of metalworking tools and procedures.

TECH 305. CONSTRUCTION ESTIMATING. 4 Credits.
Pre-requisites: TECH 235.
This course provides students with the ability to estimate construction
costs by reading and interpreting technical drawings. Primary focus is on
calculating materials, labor and equipment cost for both residential and
commercial building projects. Students generate quantity takeoffs for
specific building projects.

TECH 317. COMPUTER-AIDED DRAFTING. 4 Credits.
Using the computer to draft mechanical, electrical, and architectural
drawings in 2- and 3-dimensions. File management methods, job
management methods, and macro development techniques are
discussed. (3 hours lecture, 3 hours laboratory per week)

TECH 320. NON-METALLIC PROCESSES. 5 Credits.
Pre-requisites: METC 110; junior/senior status or permission of
instructor.
Survey of non-metallic materials (such as woods, plastics, and ceramics)
and the industrial processes utilized to convert raw materials into
finished products. Course includes characteristics and properties of
non-metallic materials and utilization of industrial tools and processing
equipment.

TECH 330. TECHNOLOGY PROBLEM ANALYSIS AND DESIGN I. 4 Credits.
Pre-requisites: junior standing or permission of the instructor.
Development of advanced skills in technical problem analysis, planning,
research, solution strategies, critical thinking and presentation.
Computer-aided design tools such as CAD, project-planning software,
spreadsheets, as well as imaging and publishing software are used.
Emphasis is on consideration of interconnected systems.

TECH 331. TECHNOLOGY PROBLEM ANALYSIS AND DESIGN II. 4 Credits.
Pre-requisites: TECH 330.
Development of student's synthesis, design, organizational, and learning
skills through examination of current research and/or design topics in
Technology.

TECH 335. ARCHITECTURE. 4 Credits.
Pre-requisites: METC 110.
Design, layout, and development of residential dwellings and large
structures. (4 hour lecture per week)

TECH 345. SOILS/SURVEYING. 4 Credits.
Pre-requisites: TECH 335.
This course introduces soil mechanics and site surveying. Through
lecture and field work the course examines characteristics and
compositions of soil, soil classification systems and the strength of soil
masses. Students practice fundamentals of construction surveying,
including taping, leveling, angular measurement, traversing, topographic
surveying, building layout and grade staking.

TECH 354. BUILDING CODES. 4 Credits.
Pre-requisites: TECH 335.
Building Codes is a comprehensive course pertaining to International
Building Codes (IBC). Emphasis is placed on code requirements for both
commercial and residential applications to include structural, mechanical,
plumbing, fire, fuel gas and private sewage code requirements.

TECH 393. TECHNOLOGY WORLD CIVILIZATION. 4 Credits.
Cross listed: HONS 393.
Pre-requisites: ENGL 101.
Satisfies: international studies university graduation requirement.
Students will investigate the issues surrounding technological change in
discrete cultural settings with a historical perspective of the evolution of
technology in a global context.

TECH 395. CO-OP FIELDWORK. 1-5 Credits.

TECH 396. EXPERIMENTAL COURSE. 1-6 Credits.

TECH 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5
Credits.

TECH 398. SEMINAR. 4 Credits.

TECH 402. MACHINE TOOL I. 5 Credits.
Pre-requisites: METC 110 and TECH 301.
A comprehensive course in machine tool operations, both conventional
and CNC. Course includes cutting operations, precision measurement, set
up, and CNC programming. (3 hours lecture, 4 hours laboratory per week)

TECH 403. COMPUTER-AIDED DESIGN AND PROJECT MANAGEMENT. 4
Credits.
Pre-requisites: MATH 107 or permission of the instructor.
The application of spreadsheets to solve engineering problems, technical
graphs, trending and curve fitting. The introduction to the use of
computer-aided scheduling of projects, critical path planning, project
tracking and cost collection.

TECH 404. COMPUTER NUMERICAL CONTROL. 5 Credits.
Pre-requisites: TECH 301 and TECH 402.
This course provides the learner with experience utilizing CNC processes.
Programming methods will include manual, CAM software and
conversational languages.

TECH 406. WELDING TECHNOLOGY. 4 Credits.
Pre-requisites: TECH 301 or permission of the instructor.
Theory and practice of welding ferrous and non-ferrous metals. Practice
in oxyacetylene, shielded metal arc and inert gas processes. (4 hours
lecture, 4 hours laboratory per week)

TECH 430. MACHINE TOOL II. 5 Credits.
Pre-requisites: TECH 301 and TECH 402.
Application and theory in the design, development and function of tooling,
dies, molds, jigs, and fixtures. Laboratory experiences provide a problem
solving approach to development of prototypes in both unit and mass
production applications. (5 hours lecture, 4 hours laboratory per week)
TECH 452. ENGINEERING ECONOMICS. 4 Credits.
Pre-requisites: junior standing or permission of instructor.
This course focuses on the systematic evaluation of the economic
benefits and costs of projects involving engineering design and analysis.
Engineering economics quantifies the benefits and costs associated with
engineering projects to determine whether they make (or save) enough
money to warrant their capital investment.

TECH 454. ENVIRONMENTAL ENGINEERING. 4 Credits.
Pre-requisites: junior standing or permission of the instructor.
This course explores ways to promote the design and manufacturing
of environmentally sound products and processes. Benefits include
environmentally-friendly products, more efficient operations and the good
will of an informed public that expects a clean, healthy environment.

TECH 456. ENGINEERING ETHICS, CONTRACTS AND PATENTS. 4 Credits.
Pre-requisites: junior standing or permission of instructor.
This course investigates the elements of professional engineering
practice including their relationship to the law, to the public and the
ethics of the profession. Topics covered range from ethics, contracts,
patents, copyrights, sales agreements and engineering specifications to
professionalism, licensing, intellectual property, liability, risk, reliability
and safety.

TECH 458. QUALITY ASSURANCE. 4 Credits.
Pre-requisites: junior standing.
Application and theory of quality control systems including development
and use of process control charts, sampling, time and motion studies,
and statistical analysis. (4 hours lecture, 1 hour laboratory per week)

TECH 462. INDUSTRIAL SAFETY ENGINEERING. 4 Credits.
Fundamentals of safety, classification of hazards, accident statistics,
organization problems, safety codes, machine guarding, mechanical,
electrical and chemical hazards, ventilation, respiratory and safety
devices. (4 hours lecture per week)

TECH 490. SENIOR CAPSTONE: PRODUCTION LAB. 4 Credits.
Pre-requisites: senior standing.
Satisfies: senior capstone university graduation requirement.
The course simulates the real world situation that many of the graduates
from the department will face. The students will work in teams to apply
techniques of production management, product design/development,
plant layout, scheduling, cost accounting, assembly, inspection and
quality control to produce a product. The course will simulate a real
world design team concept by utilizing a design group that contains
members of different program majors. The team, to accomplish its goals,
is required to draw on each other’s unique skills learned in stated goal.
In industry often a design team is formed to develop a new product. The
team is made up of members from different departments in the company.
Learning to deal with the team dynamics while learning to take advantage
of the synergy that can be gained by a diverse team is a valuable learning
process for our business as well as civic life. Each student team is to
produce a new product (to be massed produced and demonstrated by
producing a minimum quantity of 25 units built with unskilled labor
utilizing jigs, fixtures and/or CNC controlled machines) and create a final
written report to demonstrate how the process and goals of the course
have been realized.

TECH 491. SENIOR PROJECT. 3-10 Credits.
Pre-requisites: permission of the instructor.
Independent and/or group study and implementation of a design and
development project. (variable time)
TECH 601. RESEARCH REPORT. 2-6 Credits.

TECH 695. INTERNSHIP. 1-6 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

TECH 696. COLLEGE TEACHING INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Teaching a lower-division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and instructional aids, conferences with students, experience in classroom instruction and student course evaluation.

Theatre (THTR)

THTR 110. MOVEMENT AND VOICE. 3 Credits.
Movement and Voice is beginning training in the use of voice and body for the actor. The course is designed to offer students a wide variety of exercises and experiences that contribute to self-awareness, ensemble building, actor preparation, effective communication and strength and flexibility.

THTR 150. FUND OF MUSIC/DANCE THEATRE. 3 Credits.
An introduction to skills necessary to perform musical theatre roles. Fundamentals of singing and basic dance techniques are emphasized.

THTR 196. EXPERIMENTAL. 1-5 Credits.

THTR 198. SEMINAR. 1-5 Credits.

THTR 202. THEATRE IN THE HUMANITIES. 5 Credits.
Satisfies: GECR for humanities and fine arts, list 2, fine arts.
Elements of theatre, dramatic structure, types and styles; tradition, values and ideas of the theatre and humanity’s relationship to it.

THTR 203. THEATRE GRAPHICS. 5 Credits.
The first in a series of courses in technical theatre. Introduction to drafting, blueprint reading, sketching, perspective drawing, rendering in watercolor and model making for theatrical settings, lighting and properties.

THTR 210. ACTING I. 4 Credits.
Pre-requisites: THTR 110.
Acting I is an introduction to the actor’s creative process using exercises, improvisations and scenes with a special emphasis on the Stanislavski method.

THTR 226. STAGE MAKE-UP. 1 Credit.
Lecture and laboratory where the student may learn basic and advanced techniques and principles of straight and character make-up.

THTR 295. THEATRE INTERNSHIP. 1 Credit.
Pre-requisites: permission of the instructor, department chair and college dean.
Internship experience at University Theatre in the scene shop, costume shop, or publicity office.

THTR 299. DIRECTED STUDY. 3-10 Credits.

THTR 303. SURVEY OF THEATRE HISTORY. 5 Credits.
Cross listed: HUMAN 303.
Pre-requisites: THTR 202 or upper class standing.
Surveys the major periods of Western theatre from Greek to modern trends.

THTR 310. ACTING II. 4 Credits.
Pre-requisites: THTR 202 and THTR 210.
Acting II is a continuation of Acting I. Acting II continues an exploration of the Stanislavski method through exercises, improvisations and advanced scene-work.

THTR 312. SPECIAL SKILLS FOR ACTORS. 1-5 Credits.
Notes: repeatable six times for credit with permission of instructor.
Pre-requisites: THTR 110.
Special Skills for Actors is a practical course in developing special skills for actors, such as juggling, dialects and theatrical swordplay.

THTR 319. REHEARSAL AND PERFORMANCE. 1-5 Credits.
Notes: repeatable for credit.
Pre-requisites: permission of the instructor.
Performance on stage in a University Theatre production. Amount of credit is determined by role played.

THTR 321. PLAY PRODUCTION. 3 Credits.
Techniques of producing a play for public performance. Methods of selecting scripts, casting, rehearsal procedure, and performance responsibilities. Elements of the business of production, including contractual policies and limitations.

THTR 326. CREATIVE DRAMATICS. 3 Credits.
Pre-requisites: permission of the instructor.
Aims, objectives and role of creative dramatics in education; includes participation with children.

THTR 330. STAGE COSTUME. 3 Credits.
Principles of costumes for the stage. The nature and function of this area of production including procedures, policies, sources plus historical and professional data.

THTR 331. THEATRE DESIGN AND TECHNOLOGY I. 5 Credits.
Pre-requisites: Permission of the instructor.
Theatre Design and Technology I introduces students to design and execution of theatre scenery, lighting and sound.

THTR 332. THEATRE DESIGN AND TECHNOLOGY II. 5 Credits.
Pre-requisites: THTR 331.
Theatre Design and Technology II continues to help students develop skills in the scenographic arts. Students will operate the machinery and utilize the crafts of scenic construction including rigging, painting, rendering, modeling, drafting and wiring. Programming for sets, lights and audio in the theatre are other topics covered in this course.

THTR 336. STAGE LIGHTING. 5 Credits.
Pre-requisites: THTR 203 or consent of instructor.
A beginning course in basic electricity and lighting for the theatre. Introduction to types of instruments and lamps, their uses and capabilities. Color media, circuitry and patching for manual and computer boards. Computation of electrical loads; safety measures. Three lectures and two laboratory sessions per week.

THTR 337. STAGE LIGHTING DESIGN. 3 Credits.
An intermediate course concerned with the methodology of physically designing lights for the stage.

THTR 338. CONCEPTS OF THEATRICAL DESIGN. 3 Credits.
A beginning course in the styles, history, and examples of theatrical scenic design.

THTR 339. ACTING WORKSHOP: VARIABLE TOPICS. 4 Credits.
Pre-requisites: THTR 110.
Acting Workshop is a special topics performance course, including, but not limited to, The Meisner Technique, Chekhov and improvisation.
THTR 340. SCENE CONSTRUCTION. 5 Credits.
Pre-requisites: THTR 203 or consent of instructor.
Introduction to style and types of scenery, materials; tools; stage mechanics and construction. Three lecture hours and two two-hour laboratory sessions per week.

THTR 380. THEATRE EXPERIENCE. 1 Credit.
Notes: repeatable for credit up to eight times with instructor approval.
Pre-requisites: THTR 202.
Theatre Experience provides students with internship experience at the University Theatre in the scene shop, costume shop, publicity office, box office, stage management or in performance.

THTR 395. UNIVERSITY THEATRE INTERNSHIP. 1 Credit.
Notes: repeatable for credit.
Pre-requisites: permission of the instructor, department chair and college dean.

THTR 396. EXPERIMENTAL COURSE. 1-5 Credits.

THTR 398. SEMINAR. 1-5 Credits.

THTR 399. SPECIAL STUDIES. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Subjects studied vary according to faculty and student interests.

THTR 410. ACTING III. 4 Credits.
Pre-requisites: THTR 310.
Acting III combines an intensive practical analysis of heightened language with the performance skills needed to bring classic plays to life.

THTR 412. ACTING: THE PROFESSION. 4 Credits.
Pre-requisites: THTR 110.
Students will acquire practical skills to select, prepare and perform audition pieces. They will learn about headshots, resumes, unions and professional etiquette.

THTR 419. REHEARSAL AND PERFORMANCE. 1-5 Credits.
Notes: repeatable for credit.
Pre-requisites: permission of the instructor.
Practical experience of working backstage during actual stage productions. Amount of credit to be determined by work done on the production.

THTR 421. DIRECTING I. 4 Credits.
Pre-requisites: THTR 303, THTR 310, THTR 330, THTR 332.
Directing I focuses on the process of stage directing, with emphasis on action analysis, principals of staging, composition, picturization, casting, effective use of a rehearsal process, artistic vision and collaboration with designers.

THTR 422. DIRECTING II. 4 Credits.
Pre-requisites: THTR 421.
Directing II builds upon the foundation of Directing I. The focus is on creating believable and engaging dramatic action and exploring the primary relationship between the actor and director through intensive scene-work.

THTR 425. PROFESSIONAL STAGE MANAGEMENT. 3 Credits.
A study into the preshow production and post-show requirements, supervised by a stage manager. Includes work description of related department heads and the interaction therein, both in academic and professional theatre.

THTR 430. THEATRE DESIGN AND TECHNOLOGY III. 5 Credits.
Pre-requisites: THTR 332.
Theatre Design & Technology III serves as the advanced course work in design arts for the theatre and methodology of constructing, rigging, painting, shifting, lighting, wiring and finishing of set pieces and properties for theatrical stage production.

THTR 438. SCENE DESIGN. 3 Credits.
A course in the methods available to the scene designer in presenting the design idea.

THTR 439. TOPICS IN THEATRE. 1-5 Credits.
Pre-requisites: THTR 202.
Topics in Theatre examines specific issues related to theatre arts.

THTR 445. SCENE PAINTING. 2 Credits.
A practicum in techniques and mechanics of choosing, mixing, and applying scene paint for theatrical production.

THTR 491. SENIOR THESIS PROJECT. 5 Credits.
Satisfies: senior capstone university graduation requirement.
Senior theatre majors whose schedules will not allow them to complete this course as their capstone, must enroll in an ITGS 400 course and complete the theatre department’s senior comprehensive written and oral examination. The final exit assessment instrument for graduation. Senior theatre majors expecting to graduate following the spring quarter of their senior year must undertake either the direction or design of a one-act play produced and presented on the main stage of the University Theatre as a capstone project during spring quarter. This project will result in the production of a major thesis document. The project will be conducted under the supervision of the faculty. The examination may be scheduled during any quarter.

THTR 494. STAGE DOOR TO THE FUTURE. 1-5 Credits.
Opportunity to work with professional theatre company on two or more productions each summer.

THTR 495. FIELD EXPERIENCE IN THEATRE. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Experience in production, performance, or management of a theatre outside the university. Amount of credit is dependent on responsibilities undertaken.

THTR 496. EXPERIMENTAL COURSE. 1-5 Credits.

THTR 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Group workshop projects in a selected field of theatre.

THTR 498. SEMINAR. 1-5 Credits.

THTR 499. DIRECTED STUDY. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Individual study projects in a selected special field of theatre. Limited to Senior and graduate students.

THTR 599. INDEPENDENT STUDY. 1-10 Credits.

THTR 696. COLLEGE TEACHING INTERNSHIP. 1-15 Credits.
University Studies (UNST)

UNST 215. SERVICE AND LEADERSHIP. 2 Credits.
The course is designed to explore the links between service, leadership and social change. From global to local contexts, students examine the people and circumstances involved in social transformations. Through their service-learning praxis experience, students draw upon leadership and social change theory to apply it to the context of their service experience. The goal of the course is to deepen students’ understanding of the social change model of leadership and the ways in which it shapes their ability to become change agents.

UNST 301. INTRODUCTION TO COMMUNICATION SCIENCES AND DISORDERS. 3 Credits.
Notes: intended for students still enrolled in quarter based prerequisites for the Communication Disorders program. This course provides an overview of speech, hearing and language development, disorders and remediation for students who may have an interest in this discipline as a career choice.

UNST 495. ENGAGED INTERNSHIP. 2 Credits.
Students develop their civic and professional skills through experiential learning in a community context. Throughout the quarter, students attend required meetings and complete assignments that encourage them to reflect on their experience and role in fostering positive social change.

UNST 498. SOCIAL CHANGE SEMINAR. 2 Credits.
This course examines the theory and practice of social change. The course builds upon prior and ongoing community engagement providing students a space to examine the question of “what’s next?” as they transition from college into leadership roles in their careers and communities. From global to local contexts, students examine the people and circumstances involved in social transformations and then critically reflect on their own social change work now and in the future.

Women’s Studies (WMST)

WMST 101. INTRODUCTION TO WOMEN’S STUDIES. 5 Credits.
Cross listed: HUMAN 101.
Satisfies: cultural and gender diversity university graduation requirement. Explores the struggle for equality, the message and impact of the media, power of language, influence of religion and the effects of socialization, education, race, class, roles, stereotypes and romantic love on the experience of women.

WMST 195. INTERNSHIP. 1-5 Credits.
Internship

WMST 196. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

WMST 197. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop

WMST 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

WMST 299. DIRECTED STUDY. 1-5 Credits.
Directed Study

WMST 310. ISSUES IN WOMEN’S STUDIES. 4 Credits.
Cross listed: HUMAN 310.
Satisfies: cultural and gender diversity university graduation requirement. Analyzes causes and effects of sexual stereotypes and surveys new scholarship through women’s studies in psychology, economics, female biology, history, literature and others.

WMST 314. GENDER AND COMMUNICATION. 5 Credits.
Cross listed: CMST 314.
Pre-requisites: sophomore standing.
Satisfies: cultural and gender diversity university graduation requirement. This course examines current research on the interactions among language, gender and communication in contemporary social and cultural contexts.

WMST 318. BIOLOGY OF WOMEN. 3 Credits.
Cross listed: BIOL 318.
The history, biology and myths of human reproduction as they apply to women and the interaction of brain, hormones and social life.

WMST 321. SEX AND GENDER. 5 Credits.
Cross listed: SOCI 321.
Pre-requisites: SOCI 101.
Satisfies: cultural and gender diversity university graduation requirement. A sociological analysis of differences and similarities between women and men. Examines the impact of gender ideologies on individual identity and social and political arrangements (especially instances of stratification and inequality). Also considers how changes in the gendered nature of society (e.g., socioeconomic organization, socialization, sexuality) occur.

WMST 331. PSYCHOLOGY OF WOMEN. 4 Credits.
Cross listed: PSYC 331.
Pre-requisites: SOCI 101.
Satisfies: cultural and gender diversity university graduation requirement. The psychology of women in terms of their bodies, socialization, personality, affiliation and achievement motivations, abnormal behavior patterns, therapy and personal growth needs.

WMST 333. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

WMST 351. GENDER AND TOTAL WAR. 5 Credits.
Cross listed: HIST 351.
This course explores the relationship between social constructions of gender and the history of war in the 20th century. Topics include how gender is used to justify war, and the use of gender ideologies in pacifist movements. The course also looks at ways that individual men and women experienced war, and war’s effects on the social, sexual, psychological, political and economic aspects of individuals’ lives.

WMST 360. WOMEN IN PRISON. 5 Credits.
Cross listed: CRIM 360.
In this course, we examine the socio-structural relationships between women’s lives and women’s crimes and explore how race, class and gender assumptions shape the experiences of female correctional officers and female inmates. In addition, we analyze how the prison rules and regulations that girls and women have to abide by are deeply gendered. Since the 1980s, the number of women and girls incarcerated has increased drastically. Yet, we know very little about female criminality and women’s lives inside prison.

WMST 338. DISCOVERING WOMEN IN SCIENCE. 1 Credit.
The course uses several scientific themes to rediscover from the past and find in contemporary research, the women who have made significant contributions to science.

WMST 351. GENDER AND TOTAL WAR. 5 Credits.
Cross listed: HIST 351.
This course explores the relationship between social constructions of gender and the history of war in the 20th century. Topics include how gender is used to justify war, and the use of gender ideologies in pacifist movements. The course also looks at ways that individual men and women experienced war, and war’s effects on the social, sexual, psychological, political and economic aspects of individuals’ lives.

WMST 360. WOMEN IN PRISON. 5 Credits.
Cross listed: CRIM 360.
In this course, we examine the socio-structural relationships between women’s lives and women’s crimes and explore how race, class and gender assumptions shape the experiences of female correctional officers and female inmates. In addition, we analyze how the prison rules and regulations that girls and women have to abide by are deeply gendered. Since the 1980s, the number of women and girls incarcerated has increased drastically. Yet, we know very little about female criminality and women’s lives inside prison.
WMST 366. WOMEN'S HEALTH ISSUES. 4 Credits.
Cross listed: HLED 366.
Satisfies: cultural and gender diversity university graduation requirement.
This course will explore the unique personal and social concerns regarding women's health. Emphasis will be placed on the social and health related issues that women face throughout the life cycle. Discussion will include the effect of gender stratification in the workforce, gender roles in the family unit, female depiction in the media, substance abuse, body image, pregnancy and sexuality and other issues that affect women's mental, physical and emotional health. Historical dimensions of women's health will also be explored, including contributions from historically noteworthy women.

WMST 370. SOCIOLOGY OF THE FAMILY. 5 Credits.
Cross listed: SOCI 370.
Pre-requisites: SOCI 101.
A consideration of family structures, cultures and interactions, changing family patterns and contemporary family debates.

WMST 371. CULTURAL STUDY: AFRICAN AMERICAN WOMEN AND HAIR. 2 Credits.
This course covers the history of African American women’s hair. Students will learn how different hairstyles and treatments document a journey of cultural and self-rejuvenation plagued by conflict and accusations. The course will also examine the relationship between hairstyles and racial identity.

WMST 377. ALTERNATIVES TO DOMESTIC VIOLENCE. 2 Credits.
Cross listed: SOWK 377.
Analyzes theories relevant to issues of domestic violence in their historical, legal and cultural contexts. Therapeutic interventions are explored.

WMST 389. WOMEN, LITERATURE AND SOCIAL CHANGE. 5 Credits.
Cross listed: ENGL 389.
Pre-requisites: ENGL 201.
Satisfies: cultural and gender diversity university graduation requirement.
Examines fictional images of women as these images reflect the changing roles and status of women from Greece to the present, focusing on the 19th and 20th centuries.

WMST 392. WOMEN IN THE AMERICAN WEST. 5 Credits.
Cross listed: HIST 392.
Pre-requisites: junior standing.
This course examines the lives of frontier women using a variety of primary sources (letters, diaries, oral histories), as well as secondary sources (books, articles, movies, tapes).

WMST 394. WOMEN IN AMERICAN HISTORY. 5 Credits.
Cross listed: HIST 394.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
Brings to life and surveys the accomplishments of the lost women of the past from colonial times to the present. Society's definition of the nature of women and their proper roles will be examined, as well as the actual life conditions of women and the social and economic functions they performed.

WMST 396. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

WMST 397. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop
WMST 413. GENDER AND YOUTH CULTURE. 5 Credits.
Pre-requisites: HUMN 101/WMST 101 or HUMN 310/WMST 310 or permission of instructor.
This course investigates the shaping of gender generationally, culturally and historically. A specific focus on girl culture invites critical considerations of the ways that masculinity and femininity change over time and simultaneously interact with socially imposed dichotomies of “girlhood / boyhood.”

WMST 414. GENDER AND SEXUALITY IN CINEMA. 5 Credits.
Pre-requisites: HUMN 101/WMST 101 or HUMN 310/WMST 310 or permission of instructor.
This course investigates various constructions of sexuality within cinematic representations of intimacy, desire and the body. Students develop media literacy skills for critically engaging with dominant cultural stories and images that communicate changing understandings of sexuality, gender, class, race and nation.

WMST 415. GAY, LESBIAN, BISEXUAL AND TRANSGENDER STUDIES. 5 Credits.
Cross listed: CMST 416.
Pre-requisites: one course in or cross-listed with WMST.
Satisfies: cultural and gender diversity university graduation requirement.
This course consists of a theoretical examination of gay, lesbian, bisexual and transgender identities. The course material will include texts from queer theory and a wide variety of academic disciplines.

WMST 416. GENDER AND MEDIA. 5 Credits.
Cross listed: CMST 416.
Pre-requisites: junior standing.
This course examines some of the relationships between media in the U.S. and social constructions of gender and sexuality.

WMST 417. WOMEN AND ETHICS. 5 Credits.
Cross listed: PHIL 417.
Pre-requisites: at least one of the following: WMST 101 or WMST 310 or PHIL 211 or PHIL 212.
Satisfies: cultural and gender diversity university graduation requirement.
The course will begin with a brief examination of the treatment of women within traditional ethics. We will then address the views of early women philosophers, followed by a close analysis of contemporary feminist approaches to ethics.

WMST 419. SEX, SEXUALITY AND COMMUNICATION. 5 Credits.
Cross listed: CMST 419.
Pre-requisites: one WMST course or CMST course.
This seminar examines the construction of sexuality and sexual identity through communication, with a focus on the relationship between public policy and private sexuality.

WMST 420. QUEER THEORY. 5 Credits.
Cross listed: PHIL 420.
Pre-requisites: junior standing.
This course examines the emerging field of queer theory. Queer theory questions the stability of various identity categories, suggesting instead that all performances of sex, gender, and sexuality are influenced by cultural, historical and political factors.

WMST 421. CARE AND CUSTODY OF FEMALE OFFENDERS. 5 Credits.
Cross listed: PSYC 421.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
This course explores the care and custody of female offenders in the criminal justice system, with particular focus on psychological factors and mental health treatment.

WMST 424. EQUITY AND EQUALITY IN THE WORKPLACE. 3 Credits.
Cross listed: MGMT 424.
Pre-requisites: ENGL 201.
This course examines feminist theory, the law and business management theories as they apply to equality and equity in the workplace. The course is an integrated approach to business and gender issues.

WMST 425. FAMILY VIOLENCE. 4 Credits.
Cross listed: SOWK 425.
Pre-requisites: ENGL 201.
This interdisciplinary course addresses contemporary concerns about family violence and discusses feminist perspectives on violence in the family. Theories about the historical and socio-cultural context of family violence and other explanatory theories provide frameworks for understanding personal and societal responses to family violence. Discussions include dynamics of trauma and recovery and all forms of family violence. Treatment as well as intervention, prevention, and social change approaches are discussed on both the personal and societal level.

WMST 426. ECONOMICS OF POVERTY AND DISCRIMINATION. 5 Credits.
Cross listed: AAST 424, ECON 424.
Pre-requisites: junior standing.
Satisfies: cultural and gender diversity university graduation requirement.
Economic impact of the increasing participation of women in the paid labor force of the United States. Economic theories of labor force participation, discrimination and occupational segregation. Current issues such as comparable worth, affirmative action, nontraditional careers, corporate policies, sexual harassment, child care and social welfare programs.

WMST 430. AFRICAN AMERICAN WOMEN’S HISTORY. 5 Credits.
Cross listed: AAST 430
Pre-requisites: ENGL 201.
This course examines historical writings by and about Black women, discussing slavery, lynching, combating prejudices and encouraging racial pride to provide a framework that will deepen understanding of the topic.

WMST 432. ANTHROPOLOGY OF GENDER. 4 Credits.
Cross listed: ANTH 432.
Satisfies: cultural and gender diversity university graduation requirement.
This course examines notions of sex and gender from a cross-cultural perspective. Material covered includes understandings of gender, third genders, human sexuality, and the gendered nature of activities in both non-Western and Western societies.

WMST 437. WOMEN AND ISLAM. 5 Credits.
Cross listed: ANTH 437 GEOG 437, HIST 437.
Pre-requisites: junior or senior standing.
This course examines the status and identity of women in Islamic communities throughout the world and assesses how different interpretations of Islam, as a simultaneous religious, social, cultural, political and economic system, influences perceptions of women within Islamic communities. It further considers the perceptions of Islam vis-à-vis women and Islamic women themselves by non-Muslim communities.
WMST 440. WOMEN AND PHILOSOPHY. 5 Credits.
Cross listed: PHIL 440.
Pre-requisites: at least 4 credits in WMST and/or PHIL.
The course offers an examination of the treatment of concepts relating to women and femininity, both by traditional philosophers and by more recent feminist philosophers. The course will address key issues within philosophy while simultaneously exploring the role of gender in the production of philosophical knowledge.

WMST 448. LGBTQ ISSUES FOR THE PROFESSIONAL. 4 Credits.
Cross listed: SOWK 448.
Pre-requisites: junior standing.
The course is designed to assist professionals working with individuals whose identity includes lesbian, gay, bisexual, transgendered or queer/questioning. Topics include: historical oppression, "coming out" as a process, counseling approaches and resources, and social inclusion and exclusion of sexual minorities. Personal attitudes are explored in order to improve professional response to the needs of the LGBTQ communities.

WMST 450. WOMEN AND SOCIAL CHANGE. 4 Credits.
Cross listed: SOWK 450.
Pre-requisites: junior standing.
This course examines the historical and contemporary role of women as leaders and participants in U.S. social movements. The course critiques the models and strategies used to organize communities and groups to improve the status of marginalized people.

WMST 452. GENDER AND SEXUAL ASSAULT. 4 Credits.
Cross listed: SOWK 452.
Pre-requisites: ENGL 201.
This course addresses contemporary concerns about sexual assault, primarily, but not exclusively, against women. Feminist perspectives on gender socialization and sexual violence provide frameworks for understanding personal and societal responses to sexual violence. Dynamics of trauma and recovery, treatment, prevention and change strategies will be discussed.

WMST 456. THE OLDER WOMEN. 4 Credits.
Cross listed: AGST 456, SOWK 456.
Pre-requisites: junior standing.
This course examines the research and practice knowledge on the social, economic and health problems confronting older women. Older women's needs and potential for change are considered. The course explores U.S. social policy and program alternatives that work to improve the status and quality of life for a growing and diverse population of older women.

WMST 468. HISTORY OF MODERN AMERICAN WOMEN. 5 Credits.
Cross listed: HIST 468.
Pre-requisites: junior standing.
This course explores the history of women in America from the 1900s to the present through the use of a wide range of contemporary documents that allow a variety of women of the immediate past to speak for themselves.

WMST 471. HUMAN RIGHTS AND WOMEN'S RIGHTS. 4 Credits.
Cross listed: SOWK 471.
Pre-requisites: junior standing.
The course examines the history of human rights and dignity using the declaration of rights by the United Nations and research and initiatives by the World Health Organization and other international human rights groups. The course covers topics on the human rights of women and children including health, food insecurity, economic status, housing, education, violence, war crimes and residency/citizenship status. It also examines international and national strategies for furthering human rights on the global stage.

WMST 475. HISPANIC WOMEN WRITERS. 4 Credits.
Cross listed: SPAN 475.
Pre-requisites: SPAN 310 or SPAN 312 and SPAN 321 or HIST 365.
This is a panoramic course that covers a wide, but representative array of Hispanic writers writings in Spanish from Latin America, Spain, Africa and the United States. Literary readings will be paired with other media in order to discuss issues of wars, revolutions, dictatorships, exile, migrations, race, class, gender, education and identity.

WMST 477. CONTEMPORARY INDIGENOUS WOMEN. 5 Credits.
Cross listed: IDST 477.
Pre-requisites: junior standing.
Satisfies: international studies university graduation requirement.
This course is designed to introduce students to the role of indigenous women in the struggles for national self determination from a historical/cultural/spiritual/political context. Historically, Indigenous women have always played a very prominent and powerful role within all spheres of indigenous social/political/cultural and economic issues affecting indigenous nations from a contemporary context.

WMST 483. SOCIOLOGY OF CHILDREN. 5 Credits.
Cross listed: SOCI 483.
Pre-requisites: SOCI 101.
Addresses children and childhood from the preschool years through adolescence. Examines historical shifts in the meanings of childhood and the methods used for studying the worlds of children. Explores the theoretical approaches to child development and socialization and how these can be used to understand children's experiences in different cultural settings and situations.

WMST 489. LGBT WRITERS: THEIR LIVES AND THEIR WORKS. 5 Credits.
Cross listed: ENGL 489.
Pre-requisites: ENGL 270 or HUMN 101 or WMST 101 or HUMN 310 or WMST 310 or HUMN 410 or WMST 410.
This course examines the lives and works of Lesbian, Gay, Bisexual and Transgendered (LGBT) writers as well as the historical and social contexts of their writing. Genres may include LGBT fiction, nonfiction, auto-ethnography, letters, diaries, film, critical accounts of authors' work, social networks and other artifacts. The readings focus on the lived experiences of the writers and their characters while (1) identifying "relevant gaps" within the traditional literary canon, (2) questioning "existing modes;" (3) examining "connections among societal structures such as gender, race, class, age, and sexuality that contribute to (LGBT) oppression" and (4) connecting theory to practice.

WMST 490. SENIOR CAPSTONE SEMINAR. 4 Credits.
Pre-requisites: WMST 101 or WMST 310 and one additional WMST course of 3 credits or more and ENGL 201.
Satisfies: senior capstone university graduation requirement.
The advanced student of women's studies consolidates and synthesizes feminist scholarship in the seminar. Working collaboratively, instructor and students draw together scholars and their work in numerous disciplines, relating them and drawing conclusions about the nature of society and feminist reality.

WMST 495. INTERNSHIP. 1-5 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.

WMST 496. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental

WMST 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.
Workshop
WMST 498. SEMINAR. 1-5 Credits.
Seminar

WMST 499. DIRECTED STUDY. 1-12 Credits.
Directed Study

WMST 510. FEMINIST THEORY. 4 Credits.
Notes: core requirement for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
Feminist Theories developed to explain women's position in society and current trends in feminist thought. Includes a variety of perspectives and cross-cultural views on sex and gender.

WMST 511. FEMINIST METHODOLOGIES. 5 Credits.
Notes: core requirement for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing and WMST 410 or WMST 510 or permission of instructor.
This course introduces fundamental concepts and methodological approaches to conducting feminist research. A specific focus is placed on examining and interrogating power relations and ways of knowing, as well as connecting theory and practice.

WMST 513. GENDER AND YOUTH CULTURE. 5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
This course investigates the shaping of gender generationally, culturally and historically. A specific focus on girl culture invites critical considerations of the ways that masculinity and femininity change over time and simultaneously interact with socially imposed dichotomies of “girlhood / boyhood.”

WMST 514. GENDER AND SEXUALITY IN CINEMA. 5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
This course investigates various constructions of sexuality within cinematic representations of intimacy, desire and the body. Students will develop media literacy skills for critically engaging with dominant cultural stories and images that communicate changing understandings of sexuality, gender, class, race and nation.

WMST 517. WOMEN AND ETHICS. 5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
The course will begin with a brief examination of the treatment of women within traditional ethics. We will then address the views of early women philosophers, followed by a close analysis of contemporary feminist approaches to ethics.

WMST 520. QUEER THEORY. 5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing and WMST 410 or WMST 510 or permission of instructor.
This course examines a variety of texts in the emerging field of queer theory. Queer theory questions the stability of various identity categories, suggesting instead that all performances of sex, gender and sexuality are influenced by cultural, historical and political factors.

WMST 540. WOMEN AND PHILOSOPHY. 5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
The course offers an examination of the treatment of concepts relating to women and femininity, both by traditional philosophers and by more recent feminist philosophers. The course will address key issues within philosophy while simultaneously exploring the role of gender in the production of philosophical knowledge.

WMST 596. EXPERIMENTAL. 1-5 Credits.
Experimental.

WMST 598. GRADUATE SEMINAR. 1-5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: graduate standing.
This special topics seminar offers students an opportunity to engage in new and experimental topics within the field of Gender and Sexuality Studies.

WMST 599. INDEPENDENT STUDY. 1-5 Credits.
Notes: elective for Graduate Certificate in Gender and Sexuality Studies.
Pre-requisites: permission of instructor, program director, department chair and college dean.
Graduate level directed study and research projects in Gender and Sexuality Studies, varying according to faculty and student interest.
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