GEOGRAPHY, ANTHROPOLOGY AND PLANNING

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Anthropology (http://catalog.ewu.edu/social-behavioral-sciences-work/anthropology/)
Geography (http://catalog.ewu.edu/social-behavioral-sciences-work/geography/)
Planning (http://catalog.ewu.edu/social-behavioral-sciences-work/planning/)

Faculty

Undergraduate Degrees
BA–Anthropology Major (http://catalog.ewu.edu/social-behavioral-sciences-work/anthropology/anthropology-ba/)
Minor–Anthropology (http://catalog.ewu.edu/social-behavioral-sciences-work/anthropology/anthropology-minor/)
Minor–Archaeology (http://catalog.ewu.edu/social-behavioral-sciences-work/archaeology/archaeology-minor/)
Minor–Medical Anthropology (http://catalog.ewu.edu/social-behavioral-sciences-work/archaeology/medical-anthro-minor/)
Certificate–Critical Cultural Competency (http://catalog.ewu.edu/social-behavioral-sciences-work/archaeology/critical-cultural-competency/)

BA–Geography Major (http://catalog.ewu.edu/social-behavioral-sciences-work/geography/ba/)
Minor–Geography (http://catalog.ewu.edu/social-behavioral-sciences-work/geography/geography-minor/)

BA–Urban and Regional Planning Major (http://catalog.ewu.edu/social-behavioral-sciences-work/planning/urban-regional-planning-ba/)

Minor–Urban and Regional Planning (http://catalog.ewu.edu/social-behavioral-sciences-work/planning/urban-regional-planning-minor/)

Graduate Degrees
MA–Critical GIS and Public Anthropology (http://catalog.ewu.edu/social-behavioral-sciences-work/anthropology/gis/ma/–see the department chair
MURP–Urban and Regional Planning (http://catalog.ewu.edu/social-behavioral-sciences-work/planning/urban-regional-planning-murp/)
Graduate Certificate–Geographic Information Systems (http://catalog.ewu.edu/social-behavioral-sciences-work/geography/graduate-certificate-gis/)
(Students in certificate programs should consult with the Chair)

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

Anthropology Courses

ANTR 195. INTERNSHIP. 1-5 Credits.
Internship.

ANTR 197. FRESHMAN SEMINAR. 2 Credits.
Freshman Seminar.

ANTR 201. GLOBAL CULTURAL ENCOUNTERS. 5 Credits.
Satisfies: a BACR for social sciences.
This course examines the flow of people, goods, images, ideas and knowledge that cross borders of all kinds with greater rapidity and consistency in our increasingly interconnected world. Students will deepen their understanding of and expand their exposure to cultural beliefs, traditions, practices and values from communities throughout the world. The course will consider the role that culture plays in some of the major social, political, economic and religious tensions and conflicts.

ANTR 202. HUMAN EVOLUTION. 5 Credits.
Satisfies: a BACR for natural science.
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.

ANTR 203. LANGUAGE AND HUMAN BEING. 5 Credits.
Satisfies: a BACR for humanities and arts.
This course explores the importance of language for understanding human beings. Studying language and its diversity allows us to better appreciate different cultures by giving us a sense of how people view the world differently. In the analysis of language, we learn about interpretation and philosophically rich inquiry. This course explores several different cultures through the lens of language and the interpretive problems that anthropologists face in trying to understand them.
ANTR 204. ARCHAEOLOGICAL SCIENCE. 5 Credits.
Satisfies: a BACR for natural science.
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, faunal/floral analysis, climate reconstruction and change, reconstruction of subsistence patterns and population health, mortality and movements among others.

ANTR 250. EXPERIENCING ANTHROPOLOGY. 2 Credits.
Notes: may be repeated for a max of 8 credits.
This course provides a structure for students to engage cultural research, activities and experiences on campus and in the community. In coordination with and approval by the instructor, students attend various lectures, presentation, films, performances and events throughout the quarter. The total number of hours spent attending activities must equal no less than 20. Students produce reflection papers for each activity as well as an integrative culminating paper.

ANTR 266. GENDER, HEALTH AND MARGINALIZATION. 5 Credits.
Cross-listed: DSST 266, GWSS 266.
Pre-requisites: ENGL 201 or equivalent.
Satisfies: a BACR for social sciences.
This interdisciplinary course explores personal, social, and political concerns regarding gender and health, including public health practice, epidemiological research, health policy, and access to health services. It includes discussion of health and reproductive justice activism.

ANTR 296. EXPERIMENTAL COURSE. 1-5 Credits.
Experimental Course.

ANTR 299. DIRECTED STUDIES. 1-15 Credits.
Pre-requisites: permission of the instructor, department chair and college dean.
Directed Studies.

ANTR 301. CULTURAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
This course examines major concepts, theories and methods in cultural anthropology. Students explore how anthropologists analyze and interpret different cultural practices that manifest in an individual’s everyday life. By using ethnographic case studies of communities from throughout the world, the course addresses issues of identity, family, kinship, gender, race, class, ritual, belief and expression.

ANTR 302. BIOLOGICAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
This course offers an introduction to the study of human biological evolution with an emphasis on the interaction between biology and culture. Students explore topics such as hominid evolution, skeletal morphology, primatology, population dynamics, dietary practices, illness and disease, genetics and epidemiology. The course also covers evolutionary theory, basic genetic principles, heredity and human behavioral ecology.

ANTR 303. LINGUISTIC ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
This course explores the human condition through the study of language in real-life social contexts. It explores language’s relationship to various forms of human action, as a constitutive feature of the building of human communities, and as a differentiating factor within human communities associated with stratification and inequality. Topics include performance, identity, and literacy. Basic ethnographic methods in the study of language-in-action will also be discussed.

ANTR 304. ANTHROPOLOGICAL ARCHAEOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
This course provides an introduction to the field of anthropological archaeology. Students are introduced to the history, theories, methods, and broader social contexts of material culture studies, a survey of significant archaeological excavations, the theoretical and methodological development of the discipline and the contemporary issues surrounding archaeological research.

ANTR 310. IDENTITY, ETHNICITY AND NATIONALISM. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—global studies.
This course engages the study of identity, ethnicity and nationalism to better understand how individuals and communities establish collective cohesion, create notions of group identity and organize politically. Topics include power, domination, resistance, identity formation, othering, ethno-nationalism, imagined communities, nation-states, multinational states and stateless nations.

ANTR 311. POVERTY, INEQUALITY AND SOCIETY. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—diversity.
This course explores the nature of poverty and structural inequality in communities throughout the world. The course examines the historical development of gaps in power and privilege among people and communities that results in poverty, economic oppression, and social, political and economic inequality.

ANTR 312. GLOBALIZATION AND ITS DISCONTENT. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—global studies.
This course explores the nature of globalization as both a historical phenomenon and contemporary reality. The course will address how increasingly rapid sociocultural change around the world has led to the emergence of movements that are dissatisfied with and opposed to globalization. The course will examine how resistance to globalization has led to ethnic, nationalist and class-based collective social, political and economic actions throughout the world.

ANTR 313. IMMIGRANT AMERICA. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—diversity.
International migration is reshaping politics, economics, and sociocultural landscapes in the United States. This course examines the experiences of the newest immigrants in the U.S.—those arriving after 1965—and their U.S. born children. The prevailing trend and pattern of incorporation and multiculturalism will be discussed. Theories of migration, transnationalism, and integration will be examined, along with immigration policy in the U.S.

ANTR 320. AFRICAN CULTURES. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—global studies.
This course is an introductory comparative survey of various African societies and culture communities. The course explores the geography, cultural history and contemporary diversity of people in Africa.

ANTR 321. ANTHROPOLOGY OF ASIA. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—global studies.
This course is an introductory survey of various Asian societies and cultural communities. The course explores the geography, cultural history, and contemporary diversity of people in Asia by focusing on a number of case studies with particular attention paid to the experiences of minority groups.
ANTR 322. ANTHROPOLOGY OF LATIN AMERICA. 5 Credits.
Pre-requisites: sophomore standing; ENGL 201 or equivalent.
Satisfies: a university graduation requirement—global studies.
This course is an introductory 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.

ANTR 324. ANTHROPOLOGY OF NORTH AMERICA. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—diversity.
This course is a survey of contemporary cultural groups in Canada, the United States and Mexico with particular emphasis on the myriad forms of cultural and gender diversity embedded within these areas. The course uses case studies from various communities to present "an ethnography of everyday life" in North America. The course considers topics focusing on contemporary issues of kinship, gender, class, race, ethnicity, identity, work, the environment and urbanization.

ANTR 325. INDIANS OF NORTH AMERICA. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—diversity.
This course is a survey of the various Indian cultures in North America with a particular emphasis on exploring the relationships between Indian communities, federal policies and institutions and broader American society. The course will examine various Indian cultural traditions and lifeways, issues of identity maintenance, land claims, sacred site protection, repatriation and the complex, complicated and contentious historical relationship between anthropology and Indian communities.

ANTR 329. ANTHROPOLOGY ABROAD. 1-10 Credits.
Notes: students must arrange their enrollment in this course with the department chair or program director.
This course is only available to those students participating in a study abroad opportunity and seeking to either earn university credits for study abroad or transfer credits to university from another institution's program.

ANTR 330. ENVIRONMENTAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: junior standing.
Satisfies: a university graduation requirement—global studies.
This course analyzes and contrasts the relationship between different human populations, their cultural practices, and the natural environment. The course discusses how both political and economic forces shape cultural practices, the relationship of capitalism and state formation to the natural environment, maladaptation and environmental problems, such as global climate change.

ANTR 332. ANTHROPOLOGY OF GENDER. 4 Credits.
Cross-listed: GWSS 332.
Pre-requisites: ENGL 201 or equivalent.
Satisfies: a university graduation requirement—diversity.
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.

ANTR 335. RACE AND ETHNICITY: A FOUR FIELD ANTHROPOLOGICAL APPROACH. 5 Credits.
Pre-requisites: sophomore standing.
This course explores the concepts of race and ethnicity through the four subfields of anthropology: archaeology, biological anthropology, cultural anthropology, and linguistics. Based on faculty interests, the course uses various case studies from different parts of the world to explore how the subfields of anthropology function as a connected and complementary set of lenses through which to more thoroughly engage issues of race and ethnicity.

ANTR 340. ANTHROPOLOGY OF FOOD AND NUTRITION. 5 Credits.
Pre-requisites: sophomore standing.
This course considers cultural and social significance of food by exploring the diverse ways in which people and communities across the world embed meaning in the types of foods consumed, the manner in which food is prepared and the ways in which meals are served. Topics may include hunger, malnutrition and famine, food security and food sovereignty, dietary patterns, commodification of foods and food-related social movements.

ANTR 342. MEDICAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—global studies.
The course introduces students to cross-cultural perspectives and critical theories in anthropological studies of medicine. Special attention is given to diverse ways of understanding bodies, illnesses, and therapeutic practices in our changing world. Specifically, it compares non-medical models of disease causality and healing with biomedical establishments, and examines how social and technological inequalities shape health and health outcomes.

ANTR 345. ANTHROPOLOGY OF SCIENCE AND TECHNOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
This course explores cultural aspects of science and technology. Through close readings of ethnographic texts and an exploration of the theoretical frameworks which inform them, the course explores how science and technology function in and across different cultures and societies, and how culture, society, science, and technology shape each other. Special attention is paid to the relationship between observational data and theoretical explanation in ethnographic analysis.

ANTR 350. WORLD ARCHAEOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
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 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.

ANTR 351. ARCHAEOLOGY OF NORTH AMERICA. 5 Credits.
Pre-requisites: sophomore standing.
This course explores North American prehistory from the initial peopling of the continent to the development of complex societies. Topics include human entry into and migration across the hemisphere, changes in subsistence strategies, the impact of humans on the environment and landscape, European contact and the relationship between archaeology and native communities.
ANTR 359. TOPICS IN ANTHROPOLOGY. 5 Credits.
Pre-requisites: sophomore standing.
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.

ANTR 375. WITCHCRAFT, SORCERY AND SHAMANISM. 5 Credits.
Pre-requisites: sophomore standing.
Satisfies: a university graduation requirement—diversity.
This course explores the anthropological study of religious concepts, practices, and traditions from a cross-cultural perspective. The course addresses topics such as symbolism, myth, ritual, magic, religious specialization, witchcraft, syncretism, revitalization, death, dying and the afterlife.

ANTR 401. ANTHROPOLOGY RESEARCH METHODS. 5 Credits.
Pre-requisites: ANTR 301 and ANTR 303. Prerequisites may be taken concurrently.
This course introduces the core research methods used by anthropologists to gather data for analysis and interpretation of biological and cultural phenomenon. Students gain practical experience in sampling, validity and reliability issues, interviewing techniques and methods of observation among others.

ANTR 402. ARCHAEOLOGICAL FIELD METHODS. 5 Credits.
Pre-requisites: ANTR 304 or permission of instructor.
This course introduces students to core archaeological field methods, procedures and techniques with particular emphasis on archaeological survey, site recording, mapping and site excavation strategies.

ANTR 403. VISUAL METHODS AND COMMUNICATION. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
This course explores ethnographic photography and video as ethnographic research methods, as means to communicate anthropological knowledge, and as tools for solving social problems. Topics include the classic ethnographic photography of Gregory Bateson and Margaret Mead, the progressive films and videos of Judith and David MacDougall, and the recent applied visual anthropology of Sarah Pink. Students learn basic visual theories and methods.

ANTR 404. APPLIED ANTHROPOLOGY IN PRACTICE. 5 Credits.
Pre-requisites: ANTR 401.
This course emphasizes the practical application of anthropology in community settings by providing instruction in the methods and techniques anthropologists use to work with communities, organizations and institutions to solve problems. In collaboration with faculty, students work on an applied anthropology project in the community.

ANTR 408. ANTHROPOLOGICAL THEORY. 5 Credits.
Pre-requisites: ANTR 301.
This course explores the historical development of anthropological theory from its inception to today. Major theoretical paradigms, perspectives and models concerning culture, social structure, history and evolution are addressed. Contemporary topics such as include agency and structure, subjectivity and reflexivity, postmodernism, hegemony, globalization and transnationalism are also addressed.

ANTR 431. APPLIED MEDICAL ANTHROPOLOGY. 5 Credits.
Pre-requisites: choose one of the following: ANTR 342, ANTR 401 or permission of instructor.
This course explores the application of anthropological methods and theory to help medical and healthcare professionals care for individuals through culture-specific healthcare delivery. The course addresses cultural competency, power differentials that shape access to care, ethnomedicine, alternative medicine and transcultural psychiatry.

ANTR 432. ANTHROPOLOGY OF GENDER. 4 Credits.
Satisfies: a university graduation requirement—diversity.
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.

ANTR 445. ECONOMIC ANTHROPOLOGY. 5 Credits.
Pre-requisites: ANTR 301, ECON 100, ECON 200 or ECON 201.
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.

ANTR 446. AID AND DEVELOPMENT. 5 Credits.
Pre-requisites: ANTR 311, ANTR 312 or ANTR 445; 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.

ANTR 447. FAIR TRADE, COFFEE AND SOCIAL JUSTICE. 2 Credits.
Pre-requisites: ANTR 201 or ANTR 301.
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.

ANTR 449. ADVANCED TOPICS IN CULTURAL ANTHROPOLOGY. 5 Credits.
This course is an advanced variable topics course exploring current research foci in cultural anthropology. Topics selected for this course attempt to connect anthropological perspectives and faculty research interests with contemporary issues in cultural anthropology and relevant events and trends in the world. Course is designed for majors seeking more advanced instruction in cultural anthropology.

ANTR 451. ARCHAEOLOGICAL LAB ANALYSIS. 5 Credits.
Pre-requisites: ANTR 204, ANTR 304 or ANTR 402; 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 EWU. 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 issues.

ANTR 455. ARCHAEOLOGY OF MESOAMERICA. 5 Credits.
Pre-requisites: ANTR 204, ANTR 304 or ANTR 402; or permission of the instructor.
This course explores the archaeological and ethnohistorical record of peoples from Mexico, Central America, and Western South America.
ANTR 499. DIRECTED STUDY. 1-10 Credits.
Pre-requisites: permission of instructor, department chair and college dean.
Independent study in selected areas of anthropology.

ANTR 600. THESIS. 1-5 Credits.
Thesis.

ANTR 601. RESEARCH REPORT. 1-5 Credits.
Research Report.

Critical GIS Courses

GIPA 500. ADVANCED STANDING SEMINAR. 6 Credits.
Pre-requisites: admission into Advanced Standing GIPA program or permission of the GIPA Director.
This intensive course provides students admitted to the GIPA Advanced Standing program with an overview of the foundation requirements for study. It prepares students with relevant theoretical and spatial scientific background, basic GIS training, appropriate research design and methods, and an introduction to peer-reviewed writing in the social sciences. This preparatory seminar must be successfully completed before starting the Advanced Standing program itself.

GIPA 501. WRITING WORKSHOP. 1 Credit.
Notes: graded Pass/No Credit.
Pre-requisites: graduate standing or permission of instructor.
The development of effective social science writing skills is increasingly essential to students seeking to find employment in the areas of critical GIS, applied anthropology and cultural resource management. This course focuses on developing and sharpening writing in peer-reviewed social science environments, including grants, technical reports, and research publications.

GIPA 502. REVISING WORKSHOP. 2 Credits.
Pre-requisites: GIPA 501.
This course allows students to strengthen their writing and revising skills in the social science writing context by exploring ethical dilemmas faced in fieldwork, professional conduct, legal obligations of practicing anthropologists and geographers, and conflict management as skills and tools necessary for the day-to-day practice of social science writing.

GIPA 510. RESEARCH DESIGN AND METHODS. 5 Credits.
Pre-requisites: GIPA 501, GIPA 520 or permission of instructor.
Students will develop a practical toolkit with which to conduct applied social science research at the graduate level. It 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.

GIPA 511. SCIENCE, CULTURE, SOCIETY. 5 Credits.
Pre-requisites: GIPA 501 or permission of the instructor.
This course introduces students to the practice of science in geography and anthropology as a cultural and social, as well as scientific, endeavor. We examine current trends in spatial data analysis and their varied backgrounds: the institutions, policies, economics, and cultural conventions governing the practice of science and how they have changed over the years and across space. We explore how policies and practices impact the lives of individuals and communities.
GIPA 518. RESOURCES, CULTURE, SOCIETY. 5 Credits.
Pre-requisites: GIPA 520.
This course examines natural and cultural resources as socially constructed phenomenon whose meaning changes across space and time. It provides advanced experience with the qualitative and quantitative methods of spatial analysis and the historic contexts within which they were developed. Students research, compare and critically apply a variety of environmental theories to different case study scenarios in order to develop proficiency across a spectrum of natural and cultural resources.

GIPA 520. THEORIES OF ENGAGED RESEARCH. 5 Credits.
This course examines the theoretical and philosophical foundations for engaged research with particular emphasis on the how the interaction and intersection of social, cultural and spatial theories can provide the basis for engaging the needs and problems of various partner communities.

GIPA 528. RESEARCH METHODS IN PUBLIC ANTHROPOLOGY. 5 Credits.
This course introduces core methodologies used in public and applied anthropology, such as rapid appraisals, participatory research and action research. Students will gain experience with standard research methods, including participant observation, structured and unstructured interviews, and archival research, in order to be prepared for future independent research projects.

GIPA 530. COMMUNITY ENGAGEMENT. 3 Credits.
This course uses a case study approach to examine ways of engaging community issues through public anthropology, cultural resource management and critical GIS. Explores problems and problem-solving as defined by researchers, 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.

GIPA 531. COMMUNITY PROJECTS I. 5 Credits.
Pre-requisites: GIPA 510.
This course is designed to provide students with a framework through which to engage issues of important to a local community under the mentorship of faculty. Students will identify the particular issue and community that their work will engage and connect these to their particular area of specialization. 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.

GIPA 532. COMMUNITY PROJECTS II. 5 Credits.
Pre-requisites: GIPA 531.
This course is designed to provide students with a framework through which to engage issues of important to a local community under the mentorship of faculty. Building on the work begun in GIPA 531, students will continue their community-based research while focusing on 1. data collection; 2. data management; and 3. data validation.

GIPA 533. COMMUNITY PROJECTS III. 5 Credits.
Pre-requisites: GIPA 532.
This course is designed to provide students with a framework through which to engage issues of important to a local community under the mentorship of faculty. Building on the work begun in GIPA 532, students will continue their community-based research while focusing on 1. data analysis; 2. data visualization; and 3. presentation of results.

GIPA 545. TOPICS IN SOCIAL AND ENVIRONMENTAL JUSTICE. 5 Credits.
Notes: may be repeated for credit when topics differ.
This seminar examines the breadth of research in issues related to social and environmental justice. Through an intensive engagement with relevant literature, students will be exposed to a series of select historical and contemporary debates as we examine the ontological, epistemological and practical dilemmas concerning research driven by and concerned with social and environmental justice.

GIPA 550. 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.

GIPA 555. 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.

GIPA 556. 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.

GIPA 557. 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.

GIPA 558. 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.

GIPA 561. ANTHROPOLOGY OF PUBLIC POLICY. 5 Credits.
This course considers anthropology’s contributions to public policy development and implementation as well as how public policy influence and impacts the lives of individuals and communities. Through the examination of public policy, this course will engage prevailing contemporary debates and discussions around power and the state, institutions and human agency, authority and hegemony, ideology and meaning, ethnicity and identity and the relationship between the global and the local.

GIPA 570. ARCHAEOLOGICAL RESOURCE MANAGEMENT. 5 Credits.
This course provides students with instruction and training in the professional, legal, and technical aspects of contract archaeology (aka cultural resource management). The course will emphasize the practical skills students will need to enter the CRM field, such as site management, project planning, local, state and federal regulations, preservation obligations and report writing.
GIPA 575. ARCHAEOLOGICAL FIELD SCHOOL. 5-10 Credits.
This course offers students hand-on experience in archaeological
evacuation 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.

GIPA 595. 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.

GIPA 596. EXPERIMENTAL. 1-5 Credits.

GIPA 598. GRADUATE SEMINAR. 1-5 Credits.
Graduate Seminar.

GIPA 599. INDEPENDENT STUDY. 1-15 Credits.
Independent Study.

GIPA 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.

GIPA 601. RESEARCH REPORT. 1-5 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.

Geography Courses

GEOG 100. FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT. 5
Credits.
Satisfies: a BACR for natural sciences.
An introduction to the principal components of our Earth's natural
systems of the atmosphere, hydrosphere, and biosphere with emphasis
on the dynamic patterns and processes of air, water, soil, vegetation,
landforms and habitat, and the interrelated role of humans.

GEOG 101. FUNDAMENTALS OF HUMAN GEOGRAPHY. 5 Credits.
Satisfies: a BACR for social sciences.
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 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 203. FUNDAMENTALS OF SURFACE HYDROLOGY. 5 Credits.
This class is an introduction to surface hydrology. Hydrological process
and the techniques used to measure them are the primary focus of this
course.

GEOG 204. HOT EARTH: PEOPLE AND CLIMATE CHANGE. 5 Credits.
Satisfies: a BACR for natural sciences.
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. CRITICAL CARTOGRAPHIES. 5 Credits.
Satisfies: a BACR for humanities and arts.
The focus of this course is mastering and critically evaluating the
historic and contemporary uses of maps as both scientific and artistic
representations of geographic reality, environmental as well as cultural.
Special attention is directed toward maps as communication devices.
The course is of value for those wishing to move on to geographic
information systems (GIS) courses as well as general background for
geography, social science, humanities, and education majors.

GEOG 230. WORLD GEOGRAPHY. 5 Credits.
Satisfies: a university graduation requirement—global studies.
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 235. ENERGY/WATER NEXUS. 4 Credits.
Cross-listed: SUST 235.
Satisfies: a BACR for social sciences.
Energy and water are intrinsically linked. Each is needed to extract,
harness, and transport the other and modern society demands that
both are readily available. This class will review water availability, use,
classifications and spatiotemporal considerations. Students will learn
about the history and current state of technology of energy systems.
The water energy nexus and how it prevails in different systems will be
discussed throughout the course.

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. EARTH SYSTEMS PROCESSES. 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, soils, vegetation, and oceans.

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 302. CULTURE, POWER, NATURE: THE HUMAN-ANIMAL NEXUS. 5 Credits.
Pre-requisites: ENGL 201.
An introduction to the ways that humans and animals have shared the earth across space and time, with an emphasis on the ways different cultural groups interact with, make use of, assign economic values to, develop cultural perspectives about, impact the habitats of, form friendships with, attempt to protect, or potentially cause the extinction of, various animal species. The class explores the nexus of humans, animals, and cultural systems of power, privilege, oppression and colonization.

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. NATURAL 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 FORECASTING. 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. Students will gain experience using contemporary data from NOAA/NWS and elsewhere for analyses in weather forecasting.

GEOG 315. WATER RESOURCES. 4 Credits.
Pre-requisites: mathematics clearance.
A comprehensive examination of water resources. This class examines the role of the hydrologic cycle and the geography of freshwater in human-environment interactions.

GEOG 317. RESOURCES AND CONSERVATION. 5 Credits.
Pre-requisites: successful completion of at least one natural science BACR and ENGL 201.
Satisfies: a university graduation requirement—global studies.
Studies the nature and distribution of natural resources, and problems and principles of their use and conservation.

GEOG 321. GIS FOR SOCIAL SCIENCES. 3 Credits.
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.
Notes: includes hands-on GIS work in the lab.
Introduction to Geographic Information Systems (GIS) with an emphasis on its applications in the environmental sciences. Course. 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 329. REMOTE SENSING. 5 Credits.
Pre-requisites: junior standing or permission of the instructor.
Aerial photographs, digital satellite and drone imagery as records of the earth surface; measurement, interpretation, and analysis of remotely sensed data using GIS and other imaging systems.

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 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 352. URBAN POLITICAL ECOLOGY. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
Satisfies: a university graduation requirement—diversity.
This course examines the breadth of research in geography situated within the sub-field of urban political ecology, the nexus between the process of urbanization and the natural environment. Emphasis will be placed on the spatial expression of socio-environmental inequalities (based on class, race, ethnicity, gender, sexuality, etc.), as they get written into, or reflected by, the myriad urban landscapes of the world.

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 359. POLITICAL GEOGRAPHY. 5 Credits.
Pre-requisites: sophomore standing or permission of instructor.
Satisfies: a university graduation requirement—diversity.
This course explores the complexity of the city in a global context, and the ensemble of economic, political, social, and environmental forces that are constituted in and reverberate through and across particular urban landscapes. Topical issues addressed include the evolution of urban spatial forms, policy and governance, and the city as an increasingly globalizing entity. Emphasis will be placed on contemporary urban problems (widening inequality, deepening poverty and social marginalization).

GEOG 360. 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 390. EARTH SCIENCE TEACHING METHODS. 1 Credit.
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. 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 410. GEOMORPHOLOGY. 5 Credits.
Pre-requisites: GEOG 100 or GEOL 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 413. RIVERS AND FLOODS. 5 Credits.
Pre-requisites: junior standing or request of instructor.
The course explores the processes and forms of channelized surface flow, i.e. rivers. This course emphasizes quantitative geographic evaluation and interpretation of fluvial processes, as well as the links between these processes and ecology, resource management, and policy.

GEOG 414. METEOROLOGY. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
This course begins with a discussion on energy, mass, and our atmosphere. Next, we examine the relationships between the atmosphere and the hydrosphere. The third section covers atmospheric circulation, pressure, air masses, and fronts. We finish by covering midlatitude cyclones and various atmospheric disturbances.

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 421. DENDROCHRONOLOGY. 5 Credits.
Pre-requisites: junior standing or permission of instructor.
This course introduces students to the science of tree ring analysis known as dendrochronology. This sub discipline of physical geography is the application and study of tree rings as indicators of environmental phenomena in the surrounding environment. In this course students will gain exposure to the fundamentals of tree-ring science, the history of the discipline, and various uses of tree rings in scientific research.

GEOG 426. GEOGRAPHIC INFORMATION SYSTEMS I. 5 Credits.
Notes: may be stacked with GEOG 528.
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 427. DESKTOP MAPPING. 3 Credits.
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 426.
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 431. SOCIAL AND ENVIRONMENTAL JUSTICE SEMINAR. 3 Credits.
Notes: an introduction to the material for those who plan to attend graduate school.
Pre-requisites: junior standing or permission of instructor.
This course explores the concept of “social justice” as it has been examined by social scientists in general and geographers in particular. Our primary concern will be placed on the spatial expression of socio-economic inequalities, as they get written into, or reflected by, the myriad socio-cultural landscapes of the world. Particular emphasis will be placed on contemporary problems.

GEOG 441. DISASTERS. 5 Credits.
Pre-requisites: GEOG 100 and GEOG 101, or permission of instructor.
This course examines the complexity of both natural and technological disasters by exploring various social, political, and economic aspects regarding human exposure and vulnerability to various hazards. Concepts of sustainability and risk are weighed and considered. The course then shifts to the physical sciences to investigate the mechanisms and processes associated with natural events.

GEOG 449. GIS SPATIAL ANALYSIS FOR THE ENVIRONMENTAL SCIENCES. 5 Credits.
Cross-listed: ENVS 449, GEOL 449.
Pre-requisites: GEOG 426, 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 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: a university graduation requirement—senior capstone.
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.
Enter 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 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.
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.
Pre-requisites: GIPA 510. 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 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.

Planning Courses

PLAN 100. THE CITY. 5 Credits.
Satisfies: a BACR for social sciences. 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 GOVERNANCE. 4 Credits.
Pre-requisites: ENGL 201.
Presents an overview of Native American community and culture, the history of tribal government, tribal businesses, contemporary structures, and the applications of strategic planning techniques to Native American communities. Emphasizes appropriate community development and planning techniques which promote tribal self-determination and preserve tribal sovereignty. Students will utilize contemporary tribal communities as a case studies approach to better understand tribal governance.

PLAN 376. COMPARATIVE URBANIZATION. 4 Credits.
Pre-requisites: PLAN 261 or permission of the instructor.
Satisfies: a university graduation requirement–global studies.
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 395. INTERNSHIP. 1-10 Credits.

PLAN 396. EXPERIMENTAL COURSE. 1-10 Credits.

PLAN 398. SEMINAR. 1-5 Credits.

PLAN 401. APPLIED STATISTICS FOR PUBLIC POLICY. 4 Credits.
Notes: Planning undergraduate requirements for a statistics class, MURP and MPA requirements for a statistics class. Applied policy research is the consistent theme for this course. Knowledge of computer applications is recommended.
Pre-requisites: MTHD 104 with grade ≥C grade or permission of instructor.
This course provides basic tools used in quantitative analysis in urban planning, public administration, and public policy related fields for decision-making and problem solving by using computerized spreadsheet and software. Emphasis is given to data collection, analysis, and interpretation skills. Topics include descriptive statistics, sampling, sampling distributions, confidence interval and hypothesis testing, analysis of variance, correlation and regression, and non-parametric methods.

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.
Cross-listed: HSAD 424.
Notes: HSAD 300, HSAD 310, HSAD 322, HSAD 440 and senior standing for HSAD students.
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.
Individual and team field work in the preparation of environmental impact statements. A review of state and federal environmental legislation and procedural requirements.

PLAN 435. PLANNING, POLITICS AND PUBLIC POLICY. 4 Credits.
Notes: may be stacked with PLAN 535.
“Planning, Politics and Public Policy” studies planning as a profession permeated with political dilemmas in a context marked by social, political and economic disparities. The course reviews planning in light of the politics of policy-making and questions the role of urban and regional planning in a democratic governance process.

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 464. GIS FOR URBAN AND REGIONAL ANALYSIS. 4 Credits.
Pre-requisites: junior or senior standing.
This course develops competency in geographic information systems (GIS) technology and its application to spatial analysis problems in planning. It goes so in the context of applied, real-world planning and policy problems. Topics include data development and management, spatial analysis techniques, awareness of GIS applications, GIS hardware and software, and hands-on laboratory and application projects.

PLAN 465. HISTORIC PRESERVATION PLANNING. 3 Credits.
Pre-requisites: junior or senior standing.
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 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. PARKS PLANNING. 5 Credits.
A studio which presents the basic theories and techniques of park planning through the design and development of a park planning project.

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 490. SENIOR CAPSTONE: PLANNING STUDIO. 5 Credits.
Pre-requisites: completion of 15 credit hours of planning courses.
Satisfies: a university graduation requirement—senior capstone.
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: POPULATION AND ECONOMY. 5 Credits.
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.
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.
Pre-requisites: 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 restructing 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 554. GIS FOR URBAN AND REGIONAL ANALYSIS. 4 Credits.
Surveys the philosophy and techniques of environmental analysis, 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 555. ENVIRONMENTAL REVIEW. 3 Credits.
Surveys the philosophy and techniques of environmental analysis, 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 556. 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 559. 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.

PLAN 695. PROFESSIONAL INTERNSHIP. 5 Credits.
Pre-requisites: substantial completion of degree requirements.
Professional field practice with private or public agencies. This internship is a capstone course requiring a focused internship project, approval by the student's committee, and the production of a formal report that reflects upon the internship utilizing the theories and methods learned during the student's tenure in the program.