INFORMATION SYSTEMS AND BUSINESS ANALYTICS MAJOR, BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (BSB)

The Bachelor of Science in Information Systems & Business Analytics combines Management Information Systems and Business Analytics In order to better meet the needs of the job market. This undergraduate level major concentrates on developing information systems skills and analytics skills which include data management, data processing, data wrangling, and data analysis; performing the relevant analytic methods for a given context; and communicating the results of analysis effectively to the relevant audiences.

Students must be formally declared in a BSB major or officially declared as a minor before enrolling in business classes in the required business administration core.

The undergraduate business policies can be found on the School of Business advising page (https://www.ewu.edu/cpp/business/advising/#policies).

Note:

- *Students must declare and complete the minimum BSB Pre-Major requirements or have completed the minimum Pre-Major requirements through transfer work prior to declaring for any BSB major.*
- ECON 200 and ECON 201 are considered supporting courses and may be used to fulfill BACRs as well as requirements for the Business Administration degree. However, these courses are not counted twice toward the total of 180 credits for graduation.

Grade Requirements for Graduation: a minimum grade ≥C in each course required for the major and 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.

Bachelor of Science in Business Pre-Major

Pre-Major General Education (5 out of 6 required with a C or 2.0 GPA or higher per university requirements for full major declaration)		
BACR - Humanities and Arts		
BACR - Humanities and Arts		
BACR - Natural Sciences		
BACR - Natural Sciences		
Diversity		
Global Studies		
Pre-Major Lower Division Business Core (Completion of 6 out of 8 required with a 2.5 GPA or higher for full major declaration)		**37**
ACCT 251	PRINCIPLES OF FINANCIAL ACCOUNTING	
ACCT 252	PRINCIPLES OF MANAGEMENT ACCOUNTING	
ACCT 261	BUSINESS LAW	
DSCI 245	BUSINESS STATISTICS 1	
ECON 200	INTRODUCTION TO MICROECONOMICS	
ECON 201	INTRODUCTION TO MACROECONOMICS	
ENGL 201	COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION	
MATH 200	FINITE MATHEMATICS	
or MATH 142	PRECALCULUS MATH II	
or MATH 161	CALCULUS I	
or HONS 161	CALCULUS I	
Total Credits		**37**

Required Business Administration Core

Upper Division Core		
DSCI 346	BUSINESS STATISTICS 2	4
FINC 335	FINANCIAL MANAGEMENT	4
MGMT 326	ORGANIZATION THEORY AND BEHAVIOR	4
MISC 311	INFORMATION TECHNOLOGY IN BUSINESS	4
MKTG 310	PRINCIPLES OF MARKETING	4
OPSM 330	OPERATIONS MANAGEMENT	4
Required Courses		
DSCI 353	DATA MANAGEMENT, CLEANING AND IMPUTATION	4
DSCI 446	BUSINESS FORECASTING	4
or DSCI 449	MULTIVARIATE DATA ANALYSIS	
DSCI 450	DATA VISUALIZATION	4
DSCI 489	SENIOR PROJECT	4
or DSCI 495	PROFESSIONAL INTERNSHIP	
or MISC 495	INTERNSHIP	
MISC 371	BUSINESS APPLICATIONS PROGRAM DESIGN	4
MISC 373	BUSINESS DATABASE APPLICATIONS	4
MISC 374	SPREADSHEET MODELING FOR BUSINESS APPLICATIONS	4
MISC 481	SYSTEMS ANALYSIS AND DESIGN	4
MISC 485	ADVANCED DATABASE APPLICATIONS DEVELOPMENT	4
Required Senior Capstone		
MGMT 490	DEPARTMENT SENIOR CAPSTONE	4
Total Credits		**64**

Students should declare the Pre-Major, Bachelor of Science in Business Administration (BSB) if interested in majoring in:

Entrepreneurship (http://catalog.ewu.edu/ps/sb/entrepreneurship-bsb/)
Finance (http://catalog.ewu.edu/ps/sb/finance-bsb/)
Human Resources (http://catalog.ewu.edu/ps/sb/management-human-resource-option-bsb/)
Information Systems and Business Analytics (p. 1)
International Business (http://catalog.ewu.edu/ps/sb/international-business-bsb/)
Management (http://catalog.ewu.edu/ps/sb/management-general-option-bsb/)
Marketing (http://catalog.ewu.edu/ps/sb/marketing-bsb/)
Professional Accounting (http://catalog.ewu.edu/ps/sb/professional-accounting-bsb/)

The BSB Pre-Major is designed to provide students with exposure to Lower Division Business Core topics to assist students in identifying a major that aligns with their interests. Combined with the General Education (http://catalog.ewu.edu/undergraduate-degree/) requirements, students will gain a foundation for success in all areas of study.

Students should declare the pre-major as soon as identifying an interest in one of the BSB programs and they will then be periodically informed of BSB-related activities. Students must complete the minimum pre-major coursework with the specified grade requirements prior to declaring the full major and continuing with upper-division coursework.

For additional information review the School of Business Undergraduate Advising (https://www.ewu.edu/cpp/business/advising/) information or contact CAAR (https://inside.ewu.edu/advising/) to learn more about declaring the BSB Pre-Major or one of the BSB degrees listed.

Plan of Study

The following plan of study is for a student with zero credits. Individual students may have different factors such as: credit through transfer work, Advanced Placement, Running Start, or any other type of college-level coursework that requires an individual plan.

Courses could be offered in different terms, checking the academic schedule is paramount in keeping an individual plan current. **Students should connect with an advisor to ensure they are on track to graduate.**

All Undergraduate students are required to meet the Undergraduate Degree Requirements (http://catalog.ewu.edu/undergraduate-degree/).

First Year

Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
ENGL 101	5	ENGL 201	5	DSCI 245	4
Humanities & Arts BACR 1[1]	5	MATH 200	5	ECON 200 (Social Sciences BACR 1)	5
Natural Sciences BACR 1[1]	5	Humanities & Arts BACR 2[1]	5	Natural Sciences BACR 2[1]	5
	15		**15**		**14**

Second Year

Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
ECON 201 (Social Sciences BACR 2)	5	ACCT 251	5	ACCT 252	4
DSCI 346	4	ACCT 261	4	MISC 374	4
MISC 311	4	DSCI 353	4	MKTG 310	4
		Elective - 2nd major, minor, or general elective	4	Diversity - graduation requirement[1]	5
	13		**17**		**17**

Third Year

Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
FINC 335	4	DSCI 450	4	MGMT 326	4
MISC 371	4	MISC 373	4	MISC 481	4
Global Studies - graduation requirement[1]	5	OPSM 330	4	Elective - 2nd major, minor, or general elective	4-5
Elective - 2nd major, minor, or general elective	4-5	Elective - 2nd major, minor, or general elective	4-5	Elective - 2nd major, minor, or general elective	4-5
	17-18		**16-17**		**16-18**

Fourth Year

Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
DSCI 446	4	MISC 485	4	DSCI 489	4
Elective - 2nd major, minor, or general elective	4-5	Elective - 2nd major, minor, or general elective	4-5	MGMT 490 (Senior Capstone - graduation requirement)	4
Elective - 2nd major, minor, or general elective	4-5	Elective - 2nd major, minor, or general elective	4-5	Elective - 2nd major, minor, or general elective	4-5
				Elective - 2nd major, minor, or general elective	4-5
	12-14		**12-14**		**16-18**

Total Credits 180-190

[1] University Graduation Requirements (UGR) and Breadth Area Course Requirements (BACR) courses may be less than 5 credits and additional credits may be required to reach the required 180 total credits needed to graduate. Students should connect with an advisor to ensure they are on track to graduate.

University Competencies and Proficiencies

English (http://catalog.ewu.edu/undergraduate-degree/#newitemtext)

Quantitative and Symbolic Reasoning (http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext)

Placement and Clearance (http://catalog.ewu.edu/placement/)

Prior Learning/Sources of Credit AP, CLEP, IB (http://catalog.ewu.edu/prior-learning/)

General Education Requirements (http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirementtext) (GER)

- 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

Breadth Area Core Requirements (BACR)

Humanities and Arts (http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfineartsgecrtext)

Natural Sciences (http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtext)

Social Sciences (http://catalog.ewu.edu/undergraduate-degree/#socialsciencesgecrtext)

University Graduation Requirements (http://catalog.ewu.edu/undergraduate-degree/#universitygraduationrequirementstext) (UGR)

Diversity Course List (http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext)

World Language (http://catalog.ewu.edu/undergraduate-degree/#worldlanguagetext) (for Bachelor of Arts)

Global Studies Course List (http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext)

Minor or Certificate (http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtext)

Senior Capstone Course List (http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext)

Application for Graduation (use EagleNET (https://inside.ewu.edu/eaglenet/)) must be made at least two terms in advance of the term you expect to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (http://catalog.ewu.edu/archives/) to determine *two important catalog years*.

Requirements in Degree Works (https://inside.ewu.edu/records-and-registration/degree-works/) are based on these two catalog years:

a. The catalog *in effect at the student's first term* of current matriculation is used to determine **BACR** (Breadth Area Credit Requirements) **and UGR** (Undergraduate Graduation Requirements).

b. The catalog *in effect at the time the student declares a major or minor* is used to determine the program requirements.

Students who earn a BSB in Information Systems And Business Analytics from EWU should be able to:

- accurately perform the relevant analytic methods for a given context;
- communicate the results of analyses effectively to the relevant audiences;
- recognize and address ethical issues related to privacy, intellectual property, and data security;
- think critically when making decisions about appropriate analytic methods;
- use the technical skills associated with the storage, management and cleaning of data.