

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

The Bachelor of Science in Business Systems & 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>).

Notes:

- **Students must declare and complete the minimum BSB Pre-Major** (<http://catalog.ewu.edu/ps/sb/professional-accounting-bsb/#premajortext>) **requirements or have completed the minimum Pre-Major requirements through transfer work prior to declaring for any BSB major.**

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

Notes:

ECON 201 is considered a support course and may be used to fulfill BACRs as well as requirements for the Business Administration degree. However, this course is not counted twice toward the goal of 180 credits for graduation.

Grade requirements for graduation:

minimum grade \geq C in each course required for the major;

minimum GPA \geq 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.

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 or DSCI 449	BUSINESS FORECASTING MULTIVARIATE DATA ANALYSIS	4
DSCI 450	DATA VISUALIZATION	4
DSCI 489 or DSCI 495 or MISC 495	SENIOR PROJECT PROFESSIONAL INTERNSHIP INTERNSHIP	4
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:

Business Systems & Analytics (p. 1)

Entrepreneurship (<http://catalog.ewu.edu/ps/sb/entrepreneurship-bsb/>)

Finance (<http://catalog.ewu.edu/ps/sb/finance-bsb/>)

Human Resources Management (<http://catalog.ewu.edu/ps/sb/management-human-resource-option-bsb/>)

International Business (<http://catalog.ewu.edu/ps/sb/international-business-bsb/>)

Management – General Business (<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.

University Competencies and Proficiencies

English (<http://catalog.ewu.edu/undergraduate-degree/#newitemtext>)
 Quantitative and Symbolic Reasoning (<http://catalog.ewu.edu/undergraduate-degree/#mathcompproficiencies>)
 Placement and Clearance Exams (<http://catalog.ewu.edu/undergraduate-degree/#placement>)
 Prior Learning/Sources of Credit AP, CLEP, IB (<http://catalog.ewu.edu/undergraduate-degree/#prior-learning>)

General Education Requirements (<http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirements>) (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 (<http://catalog.ewu.edu/undergraduate-degree/#generaleducationcorerequirements>) (BACR)

Humanities and Arts (<http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfinearts>)
 Natural Sciences (<http://catalog.ewu.edu/undergraduate-degree/#naturalsciences>)
 Social Sciences (<http://catalog.ewu.edu/undergraduate-degree/#socialsciences>)

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

Diversity Course List (<http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversity>)
 Foreign Language (<http://catalog.ewu.edu/undergraduate-degree/#foreignlanguage>) (for Bachelor of Arts)
 Global Studies Course List (<http://catalog.ewu.edu/undergraduate-degree/#internationalstudies>)
 Minor or Certificate (<http://catalog.ewu.edu/undergraduate-degree/#majorminor>)
 Senior Capstone Course List (<http://catalog.ewu.edu/undergraduate-degree/#capstonecourse>)

All admitted students must officially Declare a Major (<https://inside.ewu.edu/center-for-academic-advising-and-retention/academic-planning-tools/declare-your-major/>) by the time they reach 90 credits (junior standing).

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 (<https://catalog.ewu.edu/archives/>) to determine two important catalog years (<http://catalog.ewu.edu/undergraduate-degree/#activecatalogrule>).

Degree Works (<https://inside.ewu.edu/records-and-registration/degree-works/>) calculates based on these two catalog years.

1. 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).
2. The catalog *in effect at the time the student declares a major or minor* is used to determine the program requirements.

Students who successfully earn a BSB in Business Systems And Analytics from EWU should be able to do the following:

- 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.