

BACHELOR OF SCIENCE IN BUSINESS - BUSINESS ANALYTICS & INFORMATION SYSTEMS

DESIGN AND DEVELOP YOUR SUCCESS!

The Business Analytics and Information Systems (BAIS) major prepares students to design, develop, and manage business analytics projects and information systems within organizations. BAIS majors develop a foundation of business knowledge and skills that are complemented by more in-depth study of business analytics and information systems. All BAIS majors complete a core of courses that provide a foundation in business analytics for more specialized study in information technology.

One of six majors at EIU's School of Business, the BAIS Major curriculum emphasizes: written and oral communication skills, analyzing and resolving problems, technical skills, creativity with design and layout skills, knowledge of internet and network technologies, and people skills.

- + **AWARD-WINNING STUDENT BUSINESS ORGANIZATIONS**
- + **BAIS FOCUSED INTERNSHIPS**
- + **INFORMATION RESEARCH PROJECTS**
- + **STUDY ABROAD**

Career tracks and positions open to BAIS majors include:

- Business Analyst
- Cyber-security Analyst
- Data Analyst
- IT Consultant
- Project Analyst
- Operations Analyst
- Quantitative Analyst
- Software Specialist
- Supply Chain Analyst
- Web/Mobile App Developer
- % J K G H 6 G E J P Q N Q I [1 H , E
- Director of Information Systems
- Product Development Director
- Risk Analyst

If BAIS program is a STEM eligible degree program (CIP code 11.0199). The STEM designation allows eligible international students on F-1 visas access to an Optional Practical Training (OPT) extension, up to 36 months, as compared to 12 months for non-STEM degrees. This extended time period enhances employment opportunities and helps students gain additional, advanced real-world skills and experiences while working in the US.

SCHOOL OF BUSINESS

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eiu.edu/analytics

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BAIS CURRICULUM REQUIREMENTS

A GRADE OF C OR BETTER IS REQUIRED IN COURSES DESIGNATED WITH AN ARROW (▶)

EIU General Education Curriculum:

- ▶ **ENG 1001G** - College Composition I
- ▶ **ENG 1002G** - College Composition II
- ▶ **CMN 1310G** - Introduction to Speech Communication
- MAT 2120G** - Finite Mathematics
- ECN 2801G** - Principles of Macroeconomics
- ECN 2802G** - Principles of Microeconomics

Critical Thinking & Quantitative Reasoning (CTQR):

Course: **OSC 4820**

Students also must fulfill the University foreign language requirement (two courses in a single foreign language) unless exempt based on high school course work.

Business Core Curriculum (prerequisites required):

- BUS 1000** - Introductory Business Seminar
- ▶ **BUS 1950** - Computer Concepts and Applications for Business
- ▶ **BUS 2101** - Financial Accounting
- ▶ **BUS 2102** - Managerial Accounting (BUS 2101)
- ▶ **BUS 2750** - Legal & Social Environment of Business (ENG 1002G)
- ▶ **BUS 2810** - Business Statistics (BUS 1950)
- BUS 3010** - Management & Organizational Behavior (60 hours)
- BUS 3200** - International Business (BUS 2750, ECN 2801G, ECN 2802G)
- BUS 3470** - Principles of Marketing (BUS 2810, MAT 2120G)
- BUS 3500** - Mgmt Information Systems (BUS 1950, MAT 2120G)
- BUS 3710** - Business Financial Mgmt (BUS2101, MAT 2120G)
- BUS 3950** - Operations Mgmt (BUS 2810, MAT 2120G)
- BUS 4360** - Strategy and Policy (Capstone for Senior Year)

BAIS Major (prerequisites required):

- ▶ **MIS 2000** - Business Analytics Programming
- ▶ **MIS 3000** - Introduction to Databases for Business Analytics
- ▶ **MIS 3060** - Introduction to Business Intelligence (▶ BUS 2810)
- ▶ **OSC 4820** - Business Analytics & Data Mining (60 hrs, ▶ BUS 2810)
- ▶ **MIS 4720** - Business Analytics Project (▶ OSC 4820)

BAIS electives (prerequisites required):

 Complete 4 from the following courses.

At least 3 courses must come from the MIS and OSC prefixes.

- ACC 3950** - Financial Data Analysis and Technical Communications
- CSM 2670** - Object Oriented Programming (▶ MIS 2000 or CSM 2170)
- CSM 3870** - Data Structures (CSM 2670)
- CIT 4823** - Big Data & Cloud Computing (CSM 2670 or CSM 1813)
- MIS 3200** - Networking Fundamentals
- MIS 3330** - Java Programming (MIS 2000 or CSM 2170)
- MIS 3505** - Adv. Microcomputer Apps & Dev (BUS 1950 & 2810)
- MIS 3530** - Business Web Site Design (60 hrs & BUS 1950)
- MIS 3970** - Study Abroad[^]
- MIS 4275** - Internship in MIS[^] (MIS 2000)
- MIS 4330** - Advanced Java Programming (MIS 3330)
- MIS 4530** - Web & Mobile App Dev (MIS 2000, ▶ MIS 3530)
- MIS 4600** - Special Topics in MIS
- MIS 4700** - Advanced Networking (60 hrs, ▶ MIS 3200)
- MIS 4740** - Independent Study (90 hrs, MIS 2000)
- MIS 4760** - Sys Anlys, Dsgn & Dev (60 hrs, ▶ MIS 2000 & BUS 3500)
- MIS 4770** - Database & Data Management (▶ BUS 3500)

Recommended Schedule of Classes

FIRST SEMESTER		SECOND SEMESTER	
YEAR 1			
COURSE	HRS	COURSE	HRS
BUS 1000*	2	ENG 1002G	3
BUS 1950*	3	MAT 2120G	3
ENG 1001G	3	ECN 2801G	3
MAT 1271	3	General Ed	3
CMN 1310G	3	General Ed	4
Total	14	Total	16
YEAR 2			
COURSE	HRS	COURSE	HRS
BUS 2101*	3	BUS 2102	3
BUS 2810	3	BUS 2750	3
MIS 2000	3	ECN 2802G	3
General ed	3	MIS 3000	3
General ed	3	General ed	3
Total	15	Total	15
YEAR 3			
COURSE	HRS	COURSE	HRS
BUS 3010	3	BUS 3470	3
BUS 3200	3	BUS 3950	3
BUS 3710	3	BUS 3500	3
MIS 3060	3	BAIS Elective	3
General Ed	3	Elective	3
Total	15	Total	15
YEAR 4			
COURSE	HRS	COURSE	HRS
OSC 4820	3	BUS 4360	3
BAIS Elective	3	MIS 4720	3
BAIS Elective	3	BAIS Elective	3
Elective	3	Elective	3
Senior Seminar	3	Elective	3
Total	15	Total	15

*Take these courses in this term to meet future prerequisites.

- MIS 4850** - Systems Security (60 hrs, ▶ BUS 3500)
- MIS 4860** - Eth. Hacking & Net. Defense (60 hrs, ▶ BUS 3500)
- OSC 3430** - Enterprise Resource Planning Systems (60 hours)
- OSC 3800** - Spreadsheet Modeling & Analysis for Management Decision Making (30 hrs, ▶ BUS 1950)
- OSC 4810** - Supply Chain & Logistics Mgmt (60 hrs, ▶ BUS 2810)
- OSC 4850** - Project Management (90 hrs)