

# 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 systems.

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
- Chief Technology Officer (CTO)
- Director of Information Systems
- Product Development Director
- Risk Analyst

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.

## QUESTIONS? CONTACT:

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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: **OSC4820**

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 (BUS2101)
- ▶ **BUS 2750** - Legal & Social Environment of Business (ENG1002G)
- ▶ **BUS 2810** - Business Statistics (BUS1950)
- BUS 3010** - Management & Organizational Behavior (60 hours)
- BUS 3200** - International Business (BUS2750, ECN 2801G, ECN2802G)
- BUS 3470** - Principles of Marketing (BUS2810, MAT2120G)
- BUS 3500** - Mgmt Information Systems (BUS1950, MAT2120G)
- BUS 3710** - Business Financial Mgmt (BUS2101, MAT2120G)
- BUS 3950** - Operations Mgmt (BUS2810, MAT2120G)
- 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 (▶ BUS2810)
- ▶ **OSC 4820** - Business Analytics & Data Mining (60 hrs, ▶ BUS2810)
- ▶ **MIS 4720** - Business Analytics Project (▶ OSC4820)

### 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 (▶ MIS2000 or CSM2170)
- CSM 3870** - Data Structures (CSM2670)
- CIT 4823** - Big Data & Cloud Computing (CSM2670 or CSM1813)
- MIS 3505** - Adv. Microcomputer Apps & Dev (BUS1950 & 2810)
- MIS 3530** - Business Web Site Design (60 hrs & BUS1950)
- MIS 4275** - Internship in MIS^
- MIS 4600** - Special Topics in MIS
- MIS 4700** - Advanced Networking (60 hrs, ▶ MIS3200)
- MIS 4740** - Independent Study (90 hrs, MIS2000)
- MIS 4760** - Syst Analysis, Design & Dev (60 hrs, ▶ MIS2000)
- MIS 4770** - Database & Data Management (▶ BUS3500)
- MIS 4850** - Systems Security (60 hrs, ▶ BUS3500)
- MIS 4860** - Ethical Hacking & Network Defense (60 hrs, ▶ BUS3500)
- OSC 3800** - Spreadsheet Modeling & Analysis for Management Decision Making (30 hrs, ▶ BUS1950)
- OSC 4810** - Supply Chain & Logistics Mgmt (60 hrs, ▶ BUS2810)

## Recommended Schedule of Classes

FIRST SEMESTER		SECOND SEMESTER	
<b>YEAR 1</b>			
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
<b>YEAR 2</b>			
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
<b>YEAR 3</b>			
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
<b>YEAR 4</b>			
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.