

Business Analytics and Information Systems

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 is 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.

Become a BAIS Major!

BAIS is one of six majors at EIU's School of Business.

Students who succeed as BAIS Majors are:

- Able to work independently
- Able to teach others
- Self-directed and proactive
- Effective team members

The BAIS Major curriculum emphasizes excellent written and oral communication skills; analyzing and resolving problems; technical skills; creativity, with good design and layout skills; knowledge of Internet and network technologies; and good people skills.



Careers in BAIS

Entry level positions are available in various areas including with average starting salaries:

▪ Business Analyst	\$70,867
▪ Cyber-security Analyst	\$75,746
▪ Data Analyst	\$59,946
▪ IT Consultant	\$78,664
▪ Project Analyst	\$59,286
▪ Operations Analyst	\$54,250
▪ Quantitative Analyst	\$84,036
▪ Software specialist	\$55,834
▪ Supply Chain Analyst	\$59,814
▪ Web/Mobile App Developer	\$59,229

After several years of experience, BAIS majors can move into managerial or other positions such as:

▪ Chief Technology Officer (CTO)	\$159,532
▪ Director of Information Systems	\$184,900
▪ Product Development Director	\$172,476

EIU's School of Business is accredited by the Association to Advance Collegiate Schools of Business International (AACSB). AACSB is the premier accreditation body for institutions offering degrees in business and accounting.



Professional Development Opportunities

Make a successful transition from college to career by enhancing the knowledge and skills you learn in the classroom through professional development activities. To gain a competitive edge in starting your career you can:

- Be a student leader by participating in EIU's award-winning student business organizations including the [Association of Information Technology Professionals \(AITP\)](#).
- Complete a [business analytics and information systems internship](#) to apply your academic skills and knowledge in the "real world," polish your professional skills, and gain a head start on your career.
- Enhance your skills using the [latest business technology](#) including up-to-date computer and networking labs.
- [Study abroad](#) to gain international experience that will help prepare you for the competitive global market place.
- Participate in [career development activities](#) such as mock interviews and resume workshops, job shadowing, and business etiquette programs to gain the skills and confidence to begin your career successfully.
- Conduct in-depth study by working on an [information systems research project](#) with a BAIS professor.

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

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

Critical Thinking & Quantitative Reasoning Course:

CTQR Course Options: CMN2040, ECN3450, GEO3810, MAT2110G, **MIS3505, OSC3800, OSC4820** (May double count), PHI1900G, PHI1990G

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 (ENG1002G)
▶BUS 2810	Business Statistics (BUS1950)
BUS 3010	Management & Organizational Behavior (60 hours)
BUS 3200	International Business (BUS2750, ECN2801G, ECN2802G)
BUS 3470	Principles of Marketing (BUS2810, MAT2120G)
BUS 3500	Mgmt Information Systems (BUS1950, MAT2120G)
BUS 3710	Business Financial Mgmt (BUS 2101, MAT2120G)
BUS 3950	Operations Mgmt (BUS 2810, MAT2120G)
BUS 4360	Strategy and Policy (Capstone for Senior Year)

BAIS Core:

MIS 2000	Business Analytics Programming
MIS 3000	Introduction to Databases for Business
MIS 3060	Introduction to Business Intelligence (▶BUS2810).
MIS 4720	Business Analytics Project (▶OSC 4820 or ▶MIS 3060)
OSC 4820	Bus Analytics and Data Mining (60 hrs, ▶BUS2810)

BAIS Electives: Complete 4 from the following courses (at least 3 with the MIS and OSC prefixes):

ACC 3950	Communications for the Accounting
MIS 3200	Networking Fundamentals
MIS 3330	Java Programming (MIS2000)
MIS 3505	Adv Microcomputer Apps & Dev (BUS1950 & 2810)
MIS 3530	Business Web Site Design (30 hours)
MIS 3970	Study Abroad^
MIS 4275	Internship in MIS^
MIS 4330	Advanced Java Programming (MIS3330)
MIS 4530	Web & Mobile App Dev (MIS2000, ▶MIS3530)
MIS 4600	Special Topics in MIS
MIS 4700	Advanced Networking (60 hrs, MIS3200)
MIS 4740	Independent Study
MIS 4760	Syst Analysis, Design & Dev (60 hrs, ▶BUS3500, ▶MIS2000)
MIS 4770	Database & Data Management (▶BUS3500)
MIS 4850	Systems Security (BUS3500)
MIS 4860	Ethical Hacking & Network Defense (▶BUS3500)
CIT 4823	Big Data and Cloud Computing
CSM 2670	Object Oriented Programming (▶MIS2000)
CSM 3870	Data Structures (Permission)
OSC 3430	Enterprise Resource Planning Systems (60 hours)
OSC 3800	Spreadsheet Modeling & Analysis (30 hrs, BUS1950)
OSC 4810	Supply Chain & Logistics Mgmt (60 hrs, ▶BUS2810)
OSC 4850	Project Management (90 hrs)

Recommended Schedule of Classes

First Semester		Second Semester	
First Year			
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
Second Year			
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

Third Year			
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	MIS Elective	3
General Ed	3	Elective	3
Total	15	Total	15
Fourth Year			
Course	Hrs	Course	Hrs
OSC 4820	3	BUS 4360	3
MIS Elective	3	MIS 4720	3
MIS Elective	3	MIS Elective	3
Elective/CTQR	3	Elective	3
Senior Seminar	3	Elective	3
Total	15	Total	15