MANAGEMENT INFORMATION SYSTEMS, BACHELOR OF SCIENCE (B.S.)

Overview

A Bachelor of Science degree in Management Information Systems (MIS) focuses on the applications and implications of computing in the world of business. This program prepares graduates for employment in many job opportunities in the local and regional job market. The BS in MIS will provide a positive Impact on economic growth in the state of Kentucky by preparing knowledge workers with IT skills and business analytics skills. These high-tech and high-demand skills will lead to greater Success as graduates enter the Kentucky workforce. There are two choices of major elective areas: Business Analytics or Security Systems.

Business Analytics Concentration

The Business Analytics Concentration prepares students for careers as Data Analyst, Business Intelligence Analyst, Data Architect, Business Systems Analyst, Data Warehousing, and Data Consultant. Students learn skills such as data visualization, data cleaning, statistical analysis, and data-driven decision making.

Security Systems Concentration

The Security Systems Concentration prepares students for careers as IT Manager, Project Manager, Business Analyst, Systems Analyst, Data Base Engineer, and Programmer/Analyst. Students learn skills such as business programming, e-business technology, database management systems, and IT project management.

Program Requirements

Major

Code	Title	Hours
University Graduation Requirements		
General Education (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/)		36
Foundations of Learning		
GSD 101	Foundations of Learning	3
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
Major Requirements		
Core Courses		
CSC 160	Introduction to Web Programming	3
MIS 215	Introduction to Business Programming	3
MIS 335	Database Management	3
MIS 340	Electronic Business Technologies and Tools	3
MIS 375	Networks and Telecommunication	3
MIS 380	Information Systems Analysis and Design	3
MIS 410	Project Management & Practice	3
CSC 496	Senior Seminar	1
CSC 499	CS Career Preparation	1
Concentrations		
Students must select one of the following Concentrations:		9
Business Analytics		
Security Systems		
Supporting Course Requirements		*16*
ACC 200	Survey of Accounting	
ECO 230	Fundamentals of Microeconomics ((Element 5B)) [G]	
INF 104	Computer Literacy with Software Applications	
or TEC 161	Computer Applications in Technology	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices ((Element 2))	
MGT 301	Principles of Management (NB)	
STA 270	Applied Statistics	
The addition of a certificate or minor to this program is highly recommended. Please note that for non-business majors (any degree other than BBA), a maximum of 29 credit hours in business courses can be counted toward degree requirements.		
Free Electives		33
Total Hours		**120**

G Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

Business Analytics Concentration

Code	Title	Hours
Concentration Courses		
Choose nine hours from the following:		9
MIS 430	Business Data Mining	
MIS 431	Advanced Business Analytics	
MIS 435	Advanced Database Topics	
STA 580	R and Introductory Data Mining	
NET 343	Network Switches & Routers	
NET 354	Microcomputer & Network Security	
NET 403	Advanced LANSs and PC Communication	
Total Hours		**9**

Security Systems Concentration

Code	Title	Hours
Concentration Courses		
Choose nine hours from the following:		9
INF 321	Computer Forensics	
INF 322	Computer Forensics II	
MIS 349	Applied Learning in Management Information Systems	
MIS 430	Business Data Mining	
MIS 475	Advanced Telecommunications	
INF 518	Principles of Cybersecurity	
NET 343	Network Switches & Routers	
NET 354	Microcomputer & Network Security	
NET 403	Advanced LANSs and PC Communication	
Total Hours		**9**