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# **MANAGEMENT INFORMATION** SYSTEMS, BACHELOR OF SCIENCE WITH A **CONCENTRATION IN BUSINESS ANALYTICS (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**

## **Summary Checklist for General Education**

Code	Title	Hours
Element 1		
	unication (http://catalogs.eku.edu/undergraduat c-information/general-education-requirements/	te/ 3
	unication (http://catalogs.eku.edu/undergraduat c-information/general-education-requirements/	te/ 3

#### C: Oral Communication (http://catalogs.eku.edu/undergraduate/ general-academic-information/general-education-requirements/ element-1/)

#### Element 2

Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/ 3 general-academic-information/general-education-requirements/ element-2/)

#### Element 3

A: Arts (http://catalogs.eku.edu/undergraduate/general-academic-	3
information/general-education-requirements/element-3/)	

### B: Humanities (http://catalogs.eku.edu/undergraduate/generalacademic-information/general-education-requirements/element-3/)

#### **Element 4**

Natural Sciences (http://catalogs.eku.edu/undergraduate/generalacademic-information/general-education-requirements/element-4/)

#### Element 5

A: Historical Science (http://catalogs.eku.edu/undergraduate/ general-academic-information/general-education-requirements/ element-5/)

B: Social Behavioral Science (http://catalogs.eku.edu/ undergraduate/general-academic-information/general-educationrequirements/element-5/)

#### Element 6

6 Diversity of Perspectives Experiences (http://catalogs.eku.edu/ undergraduate/general-academic-information/general-educationrequirements/element-6/)

**Total Hours** 36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

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& MAT 112B

MGT 301

STA 270

recommended.

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Code	Title	Hours		
University Graduation Requirements				
General Education				
Student Success Seminar				
SCO 100	Student Success Seminar	1		
• •	urses (42 hrs. distributed throughout Major/ d/Free Electives categories)			
Major Requiremen	nts			
Core Courses				
CSC 160	Introduction to Web Programming	3		
MIS 215				
MIS 335				
MIS 340				
MIS 375				
MIS 380				
MIS 410				
CSC 496	Senior Seminar	1		
CSC 499	CS Career Preparation	1		
Concentrations				
Students must se	lect one of the following Concentrations:			
Business Analytic	es	9		
Security System	ms			
Supporting Course	Requirements	19-20		
ACC 200	Survey of Accounting			
ECO 230	Fundamentals of Microeconomics ((Element 5B)	) <sup>G</sup>		
INF 104	Computer Literacy with Software Applications			
or TEC 161	Computer Applications in Technology			
MAT 112A	Algebra: Polynomials			

and Algebra: Functions & Matrices ((Element 2))

Principles of Management (NB)

**Applied Statistics** The addition of a certificate of minor to this program is highly

Free Electives	31-32
Total Hours	120

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

## Concentration

Code	Title	Hours	
Concentration Courses			
Choose nine ho	urs from the following:	9	
MIS 430			
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	