COMPUTER INFORMATION SYSTEMS: CYBER SECURITY CONCENTRATION, BACHELOR OF SCIENCE

The Bachelor of Science in Computer Information Systems (BS-CIS) with a cyber security concentration prepares students for a variety of IT managerial and technical cyber security and cyber defense positions. Students will gain working knowledge in a multitude of areas such as identifying cyber threats, cyber-exploits, network and server side attacks, defensive IT countermeasures, wireless network security, cryptography, password cracking, web exploitation, cyber terrorism, and various aspects of identifying threat vulnerabilities, IT security risk management, disaster recovery planning, cyber law, information assurance (IA), and more.

Cyber security concentration students will acquire the core cyber security knowledge that is required for key technical and managerial IT security positions. Students will develop the foundational skills needed to be successful in their chosen cyber security career path.

Program Objectives

The program seeks to develop a deeper understanding of the role of information systems within organizations and the processes that support technology-enabled business development.

At the conclusion of the CIS program, students will demonstrate the ability to:

- 1. Analyze, design, implement, and maintain an information system.
- 2. Communicate clearly and effectively in writing and speaking.
- 3. Work effectively as a team member for a common purpose.
- 4. Identify ethical issues and provide alternatives or solutions.

Specific Program Requirements

CIS majors are encouraged to complete a minor in Business Administration or another Business-related minor.

Course	Title	Credits	
General Education			
Please refer to "Specific General Education Requirements"			
Quantitative Analysis Requirement			
MATH 220	Quantitative Analysis for Business	4	
BSAD 265	Inferential Statistics & Problem Solving	3	
BSAD 360	Advanced Business Statistics	3	
Required Related Courses			
BSAD 270	Business Communications	3	
MGMT 201	Principles of Management	3	
MGMT 368	Project Management	3	
Open Electives ² 8			
CIS Major Courses			
CIS 105	Introduction to Access DBMS	1	
CIS 120	Introduction to Programming with Python	3	
CIS 150	Introduction to Computer Information Systems	3	

Total Credits		
CIS 3/400 Upper Division Electives		
CIS 462	Computer Forensics	3
CIS 461	IT Security Risk Management	3
CIS 460	Cyber Security & Defense	3
CIS 401	Network Systems Administration	3
Cyber Security Concentration		
CIS 493	Senior Seminar	1
CIS 350	Database Management	3
CIS 315	Linux Fundamentals	3
CIS 311	Introduction to Web Development	3
CIS 289	Network Concepts	3
CIS 271	Advanced Program Design with Java	4
CIS 250	Introduction to Business Analytics	3
CIS 240	Systems Analysis & Design	3
CIS 210	Introduction to Cyber Security	3
CIS 171	Introduction to Java Programming	4

Specific General Education Requirements

C	ourse	Title	Credits
Humanities			
	CID 103	Speaking & Listening	3
Social Science			
	ECON 201 & ECON 202	Principles of Macroeconomics (GT-SS1) and Principles of Microeconomics (GT-SS1)	6
Mathematics			
	MATH 101	Introductory College Mathematics (GT-MA1)	3

Specific Graduation Requirements

- Students majoring in computer information systems must maintain grades of C or higher in all CIS courses. In addition, all required CIS prerequisites must be completed with a grade of C or higher.
- Students must complete at least 120 semester hours in an approved program of study, including 52 hours in the major.
- Students must complete a minimum of 21 credits of CIS upperdivision course work. At least 16 of these upper-division CIS credits must be taken in residence.
- Students must complete a course planning worksheet and participate in the advisement process with a CIS faculty advisor.

Summary of Graduation Requirements (CIS)

General Education: 36¹

Quantitative Analysis Requirement: 10

Required Related: 9 Open Electives: 13 Major: 52

TOTAL (minimum credits): 120

Planning Sheet

Disclaimer. The Planning Sheet is designed as a guide for student's planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of an academic advisor. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should

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become familiar with the catalog in effect at the time in which they entered the institution.

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CIS 461	IT Security Risk Management	3
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,	Total Credits	119