

# Computer Information Systems

## MAJOR

## MINOR

### SEE RELATED PROGRAMS:

- COMPUTER SCIENCE
- INFORMATION TECHNOLOGY
- SECURE COMPUTING & INFORMATION ASSURANCE

**Professors:** Chitsaz, Rinard (Chair)

**Associate Professors:** M. Flinn, Zheng

**Assistant Professors:** Pan, Xiao, Xu

**Lecturers:** Gbenro, S. Kennedy

- Computer science courses must have a grade of C or better to be applied towards major or minor requirements.
- You may receive credit by examination for the following courses: COSC 100, 101, 240, 350.

## Program Requirements

	MAJOR	MINOR
Hours Required in Computer Science:	47	13
Hours Required in Other Departments:	27-28	6
Total Hours Required:	74-75	19

## Requirements for Major in Computer Information Systems

### 1. Core Courses: (26 hours)

COSC101	The Discipline of Computer Science ( <i>Tech. Fluency</i> )
COSC 102	Foundations of Computer Science
COSC 240	Computer Science I
COSC 241	Computer Science II
COSC 325	Software Engineering
COSC 365	Digital Logic
COSC 460	Operating Systems Concepts
COSC 489	Computer Science Capstone

### 2. Required Advanced Courses: (15 hours)

COSC 300	Structured Systems Analysis and Design
COSC 331	Fundamentals of Computer Networks
COSC 380	Computer-Based Information Systems
COSC 440	Database Management Systems

COSC 480 Knowledge-Based Systems

### 3. Other Required Courses:

#### Mathematics (6-7 hours)

MATH 220 Calculus for Applications

or MATH 236 Calculus I (*Core Skill 3*)

MATH 109/110 Elements of Applied Probability and Statistics (*Core Skill 3*)

or MATH 380 Introduction to Probability and Statistics

#### Other: (12 hours)

ACCT 211 Financial Accounting

CMST 102 Introduction to Human Communication

ENGL 338 Technical Writing (*Core Skill 2*)

MGMT 251 Management of Organizations

### 4. Electives: (6 hours)

At least two courses selected from:

COSC305 Computer Ethics

COSC320 Business Programming

COSC335 Advanced Topics in Computer Networks

COSC345 The Internet and Multimedia Communications

COSC350 Low-Level Programming Concepts

COSC390 Topics in Modern Programming Languages

COSC431 Secure Computing

COSC491 Seminar in Computer Science

COSC494 Field Exp. in Computer/Information Science

COSC499 Individual Problems in Computer Science

ITEC 442 Electronic Commerce

### 5. Electives in Business: (9 hours)

Any three of the following courses

BLAW 291 Legal Environment of Business

MGMT 355 Operations Management

MGMT 356 Leadership and Human Behavior

MGMT 357 Human Resource Management

MKTG 361 Principles of Marketing

## Requirements for Minor in Computer Information Systems

### 1. Core Courses (10 hours)

COSC 101 The Discipline of Computer Science (*Tech. Fluency*)

COSC 240 Computer Science I

ACCT 211 Financial Accounting

### 2. Advanced Courses: (6 hours)

Two of the following

COSC 300 Structured System Analysis and Design

COSC 305 Computer Ethics

COSC 380 Computer-Based Information Systems

**3. Elective in Business: (3 hours)***One of the following*

BLAW	291	Legal Environment of Business
MGMT	355	Operations Management
MGMT	356	Leadership and Human Behavior
MGMT	357	Human Resource Management
MKTG	361	Principles of Marketing