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

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<tr>
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<th>MAJOR</th>
<th>MINOR</th>
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<tbody>
<tr>
<td>Hours Required in Computer Science</td>
<td>47</td>
<td>13</td>
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<tr>
<td>Hours Required in Other Departments</td>
<td>27-28</td>
<td>6</td>
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<td>Total Hours Required</td>
<td>74-75</td>
<td>19</td>
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Requirements for Major in Computer Information Systems

1. Core Courses: (26 hours)
   - COSC 101 The Discipline of Computer Science (Tech. Fluency)
   - 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

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:
   - COSC 305 Computer Ethics
   - COSC 320 Business Programming
   - COSC 335 Advanced Topics in Computer Networks
   - COSC 345 The Internet and Multimedia Communications
   - COSC 350 Low-Level Programming Concepts
   - COSC 390 Topics in Modern Programming Languages
   - COSC 431 Secure Computing
   - COSC 491 Seminar in Computer Science
   - COSC 494 Field Exp. in Computer/Information Science
   - COSC 499 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 331 Fundamentals of Computer Networks
   - COSC 380 Computer-Based Information Systems
   - COSC 385 Computer Ethics
   - COSC 440 Database Management Systems

   COSC 480 Knowledge-Based Systems

   COSC 489 Computer Science Capstone
   - COSC 491 Seminar in Computer Science
   - COSC 494 Field Exp. in Computer/Information Science
   - COSC 499 Individual Problems in Computer Science
   - ITEC 442 Electronic Commerce
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