Program: Computer Science
Major: Computer Science - Information Science
Degree: Bachelor of Science (B.S.)

Dept: Computer Science
College: Mathematics and Science
Major Code: 6102

University Core (Total Listed 42-44)

- Written and Oral Communication ............................................... 9
- Quantitative Reasoning/Scientific Method ...................................... 10-11
  - Math.......................................................... 3
  - Life Science .................................................. 4
  - Physical Science............................................. 3-4
- Critical Inquiry and Aesthetic Analysis ........................................ 6
  - Aesthetic Analysis .............................................. 3
  - Critical Inquiry ................................................ 3

Minimum Required Hours

- Support Courses

Major Support Courses ..............................................................0-12

Students majoring in Computer Science-Information Science are encouraged to complete the following courses in high school.

- A high school computer technology course using a word processor, spreadsheet, e-mail, browser, and search engines OR
  - CMSC 1053 Professional Computer Applications and Problem Solving
  - CMSC Advanced Placement High School Programming Course OR
  - MATH 1533 Precalculus-Algebra
  - MATH 1513 College Algebra OR Placement Score AND
  - MATH 1593 Plane Trigonometry OR Placement Score

* A grade of ‘C’ or better is required for either MATH 1513 or MATH 1533 and MATH 1593 to take MATH 2313.

Upon completion of the above courses, corresponding university core requirements will be satisfied. (These courses are required for this major regardless of previous degrees conferred.)

- Major Requirements

Computer Science - Information Science .......... 79

Required .................................................. 67

- CMSC 1613 Programming in C++
- CMSC 1621 Laboratory for Programming in C++
- CMSC 2123 Discrete Structures
- CMSC 2413 Visual Programming
- CMSC 2613 Fundamental Data Structures
- CMSC 2621 Laboratory for Fundamental Data Structure
- CMSC 2833 Computer Organization and Architecture I
- SE 3103 Object-Oriented Design and Patterns
- CMSC 3303 Systems Analysis and Design OR
  - SE 4283 Software Engineering I
  - CMSC 3413 Enterprise Programming
  - CMSC 3613 Algorithms and Advanced Data Structures
  - CMSC 3621 Lab for Algorithms and Advanced Data Structures

- American Historical and Political Analysis .............................................. 6
  - American National Government ............................................. 3
  - American History ...................................................... 3

- Cultural and Language Analysis .............................................. 3-4
  - Second Language ................................................. 4
  - Cultural Analysis .................................................. 3

- Social and Behavioral Analysis .................................................. 3

- Life Skills .......................................................... 5
  - Required Health Course ....................................... 2
  - Elective Life Skills .............................................. 3

- Elective CMSC or SE courses .................................................. 6

  Any 3/4000 level CMSC or SE courses except SE 4513

- Other areas of application .................................................. 6

  Selected from the following:
  - ACCT 3113 Managerial Accounting
  - FIN 3563 Fundamentals of Business Finance
  - ISOM 3323 Business Analytics
  - ISOM 4063 Computer Simulation
  - ISOM 4283 Developing Decision Support Systems
  - ISOM 4363 Information Systems Management
  - ISOM 4513 Emerging Topics in Information Systems

- CONTINUED ON NEXT PAGE -
Program: Computer Science - continued
Major: Computer Science - Information Science
Degree: Bachelor of Science (B.S.)

- CONTINUED FROM PREVIOUS PAGE -

Electives to bring total to ......................................... 124

Minimum Grade Requirements
Average in (a) all college course work, (b) course work at UCO,
and (c) major courses .................................................. 2.00

Accelerated BS/PSM
UCO’s P.S.M. (Professional Science Master’s) in Computational Science has partnered with the B.S. in Computer Science - Information Science major so that approved students may take up to nine credit hours of 5000-level CMSC courses during their senior year of the B.S. program. These courses will count toward both the B.S. and P.S.M. degrees. A formal application to the P.S.M. Computational Science program and an approval from the Department of Computer Science are required. Requirements for the P.S.M. program are located in the UCO Graduate Catalog under Computational Science - Computer Science, P.S.M.

Up to nine credit hours of the following courses can be used to satisfy both the B.S. Computer Science - Information Science and the P.S.M. Computational Science - Computer Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSC 5043</td>
<td>Applications Database Systems</td>
</tr>
<tr>
<td>CMSC 5283</td>
<td>Software Engineering I</td>
</tr>
<tr>
<td>CMSC 5323</td>
<td>Computer and Network Security</td>
</tr>
</tbody>
</table>