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

University Core  (Total Listed 42-44)

For a full list of courses see University Core.

• Courses from the major may apply to the areas marked in the University Core.

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

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 Advanced Placement High School Programming Course OR
CMSC 1513 Beginning Programming

*MATH 1533 Precalculus-Algebra OR
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 I
^ CMSC 1621 Programming I Laboratory
^ CMSC 2123 Discrete Structures
^ CMSC 2413 Visual Programming
^ CMSC 2613 Programming II
^ CMSC 2621 Programming II Laboratory
^ CMSC 2833 Computer Organization and Architecture I
^ SE 3103 Object Oriented Software Design and Construction
^ CMSC 3303 Systems Analysis and Design OR
  SE 4283 Software Engineering I
^ CMSC 3413 Enterprise Programming
^ CMSC 3613 Data Structures and Algorithms
^ CMSC 3621 Data Structures/Algorithms Lab

Required Hours

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

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

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

Life Skills ................................................................................. 5

Required Health Course ........................................................... 2

• Elective Life Skills ............................................................. 3

Minimum Required Hours

^ CMSC 4003 Applications of Database Management Systems
^ CMSC 4063 Networks
^ CMSC 4153 Operating Systems
^ CMSC 4323 Computer and Network Security
^ CMSC 4401 Ethics in Computing
^* CMSC 4513 Software Design and Development
^ MATH 2313 Calculus 1
^ MATH 2323 Calculus 2
^ STAT 2113 Statistical Methods OR
  ^ STAT 2103 Introduction to Statistics for Sciences OR
  ^ STAT 4113 Mathematical Statistics I
ACCT 2113 Accounting I
ACCT 2133 Accounting II
MGMT 3103 Principles of Management
ISOM 3263 Management Information Systems

^ A grade of ‘C’ or better must be earned in all required CMSC, SE,
MATH, and STAT courses.

* CMSC 4513 is recommended to be taken in the last semester prior to
graduation.

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

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

No more than three (3) hours of Internship and Individual Study com-
bined may be used to satisfy the CMSC or SE elective requirement.

Credit cannot be received for both CMSC 3303 and SE 4283.

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 Virtualization

- CONTINUED ON NEXT PAGE -
Minimum Required Hours

Program: Computer Science - continued
Major: Computer Science - Information Science
Degree: Bachelor of Science (B.S.)
Dept: Computer Science
College: Mathematics and Science
Major Code: 6102

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

For other regulations pertaining to graduation, see Academic Degree Requirements.

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:

CMSC 5043 Applications Database Systems
CMSC 5283 Software Engineering I
CMSC 5323 Computer and Network Security