Program: Computer Science  
Major: Computer Science - Applied  
Degree: Bachelor of Science (B.S.)  
Dept: Computer Science  
College: Mathematics and Science  
Major Code: 6101

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 96-97.
* 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 ..................................................0-9

Students majoring in Computer Science-Applied are encouraged to complete the following course in high school.

Advanced Placement High School Programming Course OR
CMSC 1513 Beginning Programming

*MATH 1533 Algebra for STEM OR Placement Score AND
*MATH 1593 Plane Trigonometry OR Placement Score

* A grade of ‘C’ or better is required for both MATH 1533 and 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 - Applied ...........................................59

Required .................................................................. 47

^ CMSC 1613 Programming I
^ CMSC 1621 Programming I Laboratory
^ CMSC 2413 Visual Programming
^ CMSC 2123 Discrete Structures
^ CMSC 2613 Programming II
^ CMSC 2833 Computer Organization I
^ SE 3103 Object Oriented Software Design and Construction
^ CMSC 3303 Systems Analysis and Design OR
^ SE 4283 Software Engineering I
^ CMSC 3613 Data Structures and Algorithms
^ CMSC 4003 Applications of Database Management Systems
^ CMSC 4023 Programming Languages OR
^ CMSC 4173 Translator Design
^ CMSC 4153 Operating Systems
^ CMSC 4401 Ethics in Computing
^ CMSC 4513 Software Design and Development
^ MATH 2313 Calculus 1
^ MATH 2323 Calculus 2
^ STAT 2113 Statistical Methods OR

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Degree: Bachelor of Science (B.S.)

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<th>Minimum Required Hours</th>
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- 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

For other regulations pertaining to graduation, see pages 68-69 of the 2018-2019 catalog.