Program: Computer Science

Major: Computer Science - Applied Dept: Computer Science

Computer Science - Applied College: Mathematics and Science

Degree: Bachelor of Science (B.S.) Major Code: 6101

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 96-9 • Courses from the major may apply to the areas marked in the University Core.	7. American Historical and Political Analysis 6 American National Government 3 American History 3
Written and Oral Communication9	Cultural and Language Analysis3-4
Quantitative Reasoning/Scientific Method	Second Language4 OR
Life Science	Cultural Analysis
Physical Science	Social and Behavioral Analysis
Critical Inquiry and Aesthetic Analysis	Life Skills5
Aesthetic Analysis	Required Health Course
Critical Inquiry	Elective Life Skills
Minimum Minimu	

Minimum Required Hours

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

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 - Applied59		
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
^CMS0	C 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

Minimum Required Hours

- ^ STAT 2103 Introduction to Statistics for Sciences **OR**
- ^ STAT 4113 Mathematical Statistics 1
- $^{\wedge}\,\text{A}$ 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.

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

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

Applied Area of Study18

Minor

The student will complete a minor; if the student is completing a second Bachelor's degree, the first degree's major will satisfy the requirements for the minor.

OR

Second Major

The student will complete a second major.

OR

Associate degree or comparable concentration in an information technology-related discipline transferred from a regionally accredited two- or four-year college or international equivalent with the approval of the Computer Science Department.

If less than 18 hours are transferred under this category, the student should take 2/3/4000 level CMSC electives to make up the difference. A student may take additional CMSC 3/4000 electives to bring the total hours of upper-division courses to 40.

^{*} A grade of 'C' or better is required for both MATH 1533 and 1593 to take MATH 2313.

Program: Computer Science - continued

Major: Computer Science - Applied

Dept: Computer Science

College: Mathematics and Science

Bachelor of Science (B.S.)

Major Code: 6101

Minimum Required Hours

- CONTINUED FROM PREVIOUS PAGE -

Minimum Grade Requirements

Average in (a) all college course work, (b) course work at UCO,

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