

## Transfer Agreement

Oklahoma City Community College: A.S. Computer Science – Computer Science

Major Code: 106B

and

University of Central Oklahoma: B.S. Software Engineering

Major Code: 6110

### OSCC College Courses

### UCO requirement

#### General Education:

SCL 1001 Success in College and Life  
ENGL 1113 English Composition I  
ENGL 1213 English Composition II  
HIST 1483 U.S. History to the Civil War or  
HIST 1493 U.S. History since the Civil War  
POLSC 1113 American Federal Government  
HUMANITIES 6 hours  
PSY 1113 Intro to Psychology  
Physical Science 3 hours  
Biological Science (with lab) 4 hours  
COM 2213 Introduction to Public Speaking

#### University Core:

UNIV 1012 Success Central  
ENG 1113 English Composition  
ENG 1213 English Comp and Research  
HIST 1483 History of U.S. to 1877 or  
HIST 1493 History of U.S. since 1877

POL 1113 American National Government

#### HUMANITIES

PSY 1103 General Psychology  
Physical Science (Note Requirement in UCO major)

#### Biology

MCOM 1113 Fundamentals of Speech

#### OSCC A.S. degree completes UCO University Core requirements.

MATH 1513 College Algebra  
MATH 1593 Plane Trigonometry  
^MATH 2313 Calculus 1  
^MATH 2323 Calculus 2

MATH 1533 Pre-Calculus  
MATH 1613 Trigonometry  
^MATH 2104 Calc & Analytical Geo I  
^MATH 2214 Calc & Analytical Geo II

^CS1143 Beginning Programming  
^CS2163 Java  
^CS 2363 C++  
^CS 2453 Visual Basic  
^ CS 2553 Advanced Visual Basic or  
^CS 2463 Advanced Java or  
^CS 2563 C#.NET

CMSC 1513 Beginning Programming  
^CMSC 1613 Programming I  
^CMSC 2613 Programming II  
^ CMSC 2413 Visual Programming

Elective 2000-level Computer Science

#### Total 62-64

To include additional course work required for the A.S. as stated in the OSCC catalog.

Software Engineering .....	64-67
Required.....	40
^CMSC 2123 Discrete Structures	
^CMSC 2833 Computer Organization I	
^CMSC 3103 Object Oriented Software Design and Construction	
^CMSC 3613 Data Structures and Algorithms	

- ^CMSC 4003 Applications of Database Management Systems
- ^CMSC 4153 Operating Systems
- ^CMSC 4283 Software Engineering I
- ^CMSC 4401 Ethics in Computing
- ^SE 4423 Software Engineering II
- ^SE 4433 Software Architecture and Design
- ^SE 4513 Software Engineering Senior Project \*
- ^MATH 2333 Calculus III
- ^MATH 3143 Linear Algebra
- ^STAT 2113 Statistical Methods I OR
  - ^STAT 2103 Introduction to Statistics for Sciences OR
  - ^STAT 4113 Mathematical Statistics I

^ A grade of "C" or better must be earned in CMSC 1613, 2123, 2613, 2833, 3103, 3613, 4003, 4153, 4283, 4401, SE 4423, 4433, 4513, MATH 2313, 2323, 2333, 3143, and STAT (2113 or 2103 or 4113).

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

Elective Science/Math courses.....9-12

Select a minimum of nine (9) hours including at least one of the CHEM or PHY lab courses:

- CHEM 1103 General Chemistry I
- CHEM 1112 General Chemistry I Recitation/Laboratory
- CHEM 1223 General Chemistry II
- CHEM 1232 General chemistry II Recitation/Laboratory
- PHY 1114 General Physics I and Laboratory
- PHY 1214 General Physics II and Laboratory
- PHY 2014 Phys for Scientists & Engineers I and Lab
- PHY 2114 Phys for Scientists & Engineers II and Lab
- Any 2/3/4000 level Math courses

Elective Courses.....9

Choose nine (9) hours from one of the two application areas:

Application Development

- CMSC 3413 Advanced Visual Programming
- CMSC 4133 Concepts of Artificial Intelligence
- CMSC 4303 Mobile Apps Programming
- CMSC 4373 Web Server Programming

System Development

- CMSC 4023 Programming Languages
- CMSC 4063 Networks
- CMSC 4173 Translator Design
- CMSC 4193 Introduction to Robotics
- CMSC 4323 Computer and Network Security

Elective CMSC or SE Courses.....6

- Any 3/4000 level CMSC or SE courses except CMSC 4513
- Any programming labs (CMSC 1621, 2621, and 3621)

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 4283.

**Total hours at OCCC.....62-64**

**Total hours at UCO.....64-67**

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

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

Students must meet all bachelor degree requirements at UCO to include:

- 40 hours of upper division coursework
- 30 hours in residence at UCO
- 15 of the last 30 hours must be taken in residence at UCO

For other regulations pertaining to graduation, see the UCO 2015-2016 Undergraduate Catalog.