

# Transfer Agreement

Seminole State College: A.S. Computer Science

And

University of Central Oklahoma: B.S. Software Engineering

Major Code: 6110

## Seminole State College Courses

ENG 1113 Principles of English Composition I

ENG 1213 Principles of English Composition II

GOV 1113 American National Government

HIST 1483 American History Survey to 1877 **or**

HIST 1493 American History Survey since 1877

4 Hours of Life Science, including lab:

(Principles of Biology, General Biology, Zoology, Botany)

*and*

4 Hours of Physical Science, including lab:

(CHEM 1315 General Chemistry I or PHYS 2114 General Physics/lab)

Humanities 6 hrs.

MATH 1513 College Algebra

CAP 1103 Introduction to Microsoft Office

HPER 1012 Wellness and Human Development or

HPER Activity courses 2 hrs.

SPCH 1143 Fundamentals of Speech

SOC 1101 Freshman Seminar (or SOC 1003)

Elective from Psychology, Social Sciences, World Languages, and Fine Arts

### Major Field Requirements:

CAP 2603 Advanced Microsoft Access

CS 1113 Programming in Visual Basics

CS 1183 Information Security

CS 1313 Programming in Java

CS 2013 Programming in C++

### Major Field Electives and Support:

MATH 1613 Trigonometry

MATH 2215 Calculus and Analytic Geometry I

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

**Total 64 hours**

## UCO Requirement

ENG 1113 English Composition

ENG 1213 English Composition and Research

POL 1113 American National Government

HIST 1483 History of U.S. to 1877 **or**

HIST 1493 History of U.S. since 1877

Apply to Elective Science/Math area below

MATH 1513 College Algebra

Elective

MCOM 1113 Fundamentals of Speech

### SSC A.S. degree completes UCO University Core

Elective

CMSC 2413 Visual Programming (Elec)

Elective

CMSC 1513 Beginning Programming

CMSC 1613 Programming I

MATH 1593 Plane Trigonometry

MATH 2313 Calculus 1

**Remaining University of Central Oklahoma courses:.....66-67**

## Major Requirements

Software Engineering .....66-67

Required..... 47

- ^CMSC 1621 Programming I Laboratory
- ^CMSC 2123 Discrete Structures
- ^CMSC 2613 Programming II
- ^CMSC 2833 Computer Organization I
- ^SE 3103 Object Oriented Software Design and Construction
- ^CMSC 3613 Data Structures and Algorithms
- ^CMSC 4003 Applications of Database Management Systems
- ^CMSC 4153 Operating Systems
- ^SE 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 2323 Calculus 2
- ^MATH 2333 Calculus 3
- ^MATH 3143 Linear Algebra
- ^STAT 2113 Statistical Methods OR
  - ^STAT 2103 Introduction to Statistics for Sciences **OR**
  - ^STAT 4113 Mathematical Statistics 1

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

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

Elective Science/Math courses..... 4 (if CHEM 1315 was taken in Gen Ed) or 5 (if PHYS 2114 was taken in Gen Ed) for a total of 9 hours minimum in this area, including at least one lab course.

- 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 or STAT courses with the following exceptions: MATH 2053, 2113, 2123, 2133, 2153, 2743, 3323, or 4843.

Elective Courses..... 9

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

Application Development

- CMSC 3413 Enterprise 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 2621 or 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 SE 4283.

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

**Program-to-Program Transfer policies are available in the Introduction for Program-to-Program Agreements on the UCO website at the top of the list of agreements. Links to the agreements can be found on the Academic Affairs or Transfer Student Support web pages.**