

Transfer Agreement
 Seminole State College: A.S. Computer Science
 And
 University of Central Oklahoma: B.S. Software Engineering

To comply with this agreement, students must complete the associate degree with the major listed above and include the specific courses listed below.

Seminole State College (SSC)	University of Central Oklahoma (UCO)
An Associate in Science (AS) or Associate in Art (AA) degree from an accredited Oklahoma institution that includes the OSRHE minimum requirements will satisfy the UCO University Core.	<ul style="list-style-type: none"> ● Written and Oral Communication ● Quantitative Reasoning/Scientific Method with Lab ● Critical Inquiry and Aesthetic Analysis
	<ul style="list-style-type: none"> ● American Historical and Political Analysis
See the program requirements for the associate degree on the SSC website.	<ul style="list-style-type: none"> ● Cultural and Language Analysis
Credited courses completed as part of the A.A. or A.S. that do not apply to the general education at SSC or the UCO major transfer to UCO as electives.	<ul style="list-style-type: none"> ● Social and Behavioral Analysis ● Life Skills
Hours required for the AS or AA degree/major at SSC60-64	Remaining hours in UCO University Core.....0

Seminole State College courses	UCO courses
CHEM 1315 General Chemistry I	CHEM 1103 General Chemistry I and CHEM 1112 General Chemistry I Recitation/Lab
OR	OR
PHYS 2114 General Physics I	PHY 1114 General Physics I and Laboratory
MATH 1513 Pre-Calc for Eng-Phys-CS	MATH 1513 College Algebra
CS 2013 Programming in C++	CMSC 1613 Programming I
MATH 1613 Trigonometry	MATH 1593 Plane Trigonometry
MATH 2215 Calculus and Analytic Geometry I	MATH 2313 Calculus 1

SSC transfer students are expected to self-study Java because the programming language will be used in subsequent courses.

Total at Seminole State College.....60-64

To be taken at the University of Central Oklahoma.....68-69

Major Requirements	
Software Engineering	68-69
Required.....	49
^CMSC 1621	Programming I Laboratory
^CMSC 2123	Discrete Structures
^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 3613 Data Structures and Algorithms
- ^CMSC 3621 Data Structures and Algorithms Lab
- ^CMSC 4003 Applications of Database Management Systems
- ^CMSC 4083 Cybersecurity
- ^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 8 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 Science & Engineering I and Lab
- PHY 2114 Phys for Science & Engineering II and Lab

Any non-required 2/3/4000 level MATH or STAT courses with the following exceptions: MATH 2013, 2053, 2113, 2123, 2133, 2153, 2743, 3323, or 4843.

Elective Courses 9

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

Application Development

- CMSC 3413 Enterprise Programming
- CMSC 4133 Concepts of Artificial Intelligence
- CMSC 4143 Algorithms for Machine Learning
- CMSC 4303 Mobile Apps Programming
- CMSC 4313 Internet of Things
- CMSC 4373 Cloud Web Apps Development

Cybersecurity **

- CMSC 4163 Secure Systems Administration and Certification
- CMSC 4323 Network Security
- CMSC 4333 Incident Analysis and Response I
- CMSC 4343 Cyber Operations
- CMSC 4353 Incident Analysis and Response II

** Students who choose the Cybersecurity application area are recommended to take CMSC 4063 Computer Networks and/or CMSC 4153 Operating Systems as prerequisites. CMSC 4063 and 4153 can be counted in the "Elective CMSC or SE courses" section.

System Development

- CMSC 4023 Programming Languages
- CMSC 4063 Computer Networks
- CMSC 4153 Operating Systems
- CMSC 4173 Translator Design

- CMSC 4193 Introduction to Robotics
- CMSC 4223 Cyber Infrastructure and Cloud Computing

Elective CMSC or SE Courses 6
 Any 2/3/4000 level CMSC or SE courses except CMSC 4513

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

Students must meet all bachelor’s degree requirements at UCO to include minimums of:

- 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
- 60 hours from baccalaureate granting institutions

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 transfer agreements. This agreement does not include all possible variations for transfer with these programs/majors. The Academic Advisors along with the information in the official catalogs at both institutions are critical to the understanding of the specifics of degree completion.