

Transfer Agreement
 Rose State College: A.S.-Mathematics - Computer Science Emphasis
 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.

Rose State College (RSC)	University of Central Oklahoma (UCO)
An Associate in Science (A.S.) or Associate in Art (A.A.) 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
See the program requirements for the associate degree on the RSC website.	<ul style="list-style-type: none"> • American Historical and Political Analysis • 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 RSC 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 A.S. or A.A. degree/major at RSC64	Remaining hours in UCO University Core.....0

RSC Courses	UCO Courses
MATH 2103 Discrete Math	CMSC 2123 Discrete Structures (Sub.)
MATH 1914 Differential and Integral Calculus I	MATH 2313 Calculus 1
MATH 2924 Differential and Integral Calculus II	MATH 2323 Calculus 2
MATH 2934 Differential and Integral Calculus III	MATH 2333 Calculus 3
PHYS 2434 Physics I for Eng. & Science Majors and PHYS 2401 General Physics Laboratory I	PHY 2014 Physics for Science and Engineering I and Lab (sub)
PHYS 2444 Physics II for Eng. & Science Majors and PHYS 2411 General Physics Laboratory II	PHYS 2114 Physics for Science and Engineering II and Lab (sub)
MATH 2083 Intro. to Statistics for Engineering and Science	STAT 2113 Statistical Methods
CIT 1113 Fund of Computer & Programming Logic	CMSC 1513 Beginning Programming
CIT 1173 C++ Language	CMSC 1613 Programming I

Total at Rose State College.....64

To be taken at the University of Central Oklahoma.....67

Remaining Major Requirements

Software Engineering52
 Required.....37

- ^CMSC 1621 Programming I Laboratory
 - ^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 3143 Linear Algebra
- ^ 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 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 4343 Cyber Operations
- 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 4313 Internet of Things
- 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