

Transfer Agreement

Rose State College: A.S.-Mathematics - Computer Science Emphasis and
University of Central Oklahoma: B.S.–Software Engineering
Major Code: 6110

Rose State College Courses

General Education as stated in RSC Catalog

ENGL 1113 English Composition I
ENGL 1213 English Composition II
HIST 1493 U.S. History since 1877 or
HIST 1483 U.S. History to 1877
POLS 1113 American Federal Government
Life Science (3-4)
HUM (6)
HPER (2)
Liberal Arts Elective (3)

MATH 2113 Calculus and Analytical Geometry I
MATH 2123 Calculus and Analytical Geometry II
MATH 2143 Calculus and Analytical Geometry III
MATH 2153 Calculus and Analytical Geometry IV
MATH 2103 Discrete Math
MATH 2853 Intro. to Statistics for Engineering and
Science

CIT 1113 Fund of Computer & Programming Logic
CIT 1173 C++ Language
CIT 2173 Windows® Programming in C++ .NET

PHYS 2434 Physics I for Eng. & Science Majors and
PHYS 2401 General Physics Laboratory I
PHYS 2444 Physics II for Eng. & Science Major and
PHYS 2411 General Physics Laboratory II

***Total 62-64**

UCO requirement

ENG 1113 English Composition
ENG 1213 English Composition and Research
HIST 1493 History of U.S. since 1877 or
HIST 1483 History of U.S. to 1877
POL 1113 American National Government
**RSC A.S. completes UCO University Core
Requirements.**

MATH 2313 Calculus 1
MATH 2323 Calculus 2
MATH 2333 Calculus 3
MATH 2343 Calculus 4
CMSC 2123 Discrete Structures (Sub.)
STAT 2113 Statistical Methods

CMSC 1513 Beginning Programming
CMSC 1613 Programming I
CMSC 2000-level elective

PHYS 2014 Physics for Scientists & Engineers I
And Lab
PHYS 2114 Physics for Scientists & Engineers II
And Lab

***To include additional course work required for the A.S. as presented in the RSC Catalog.**

To be taken at the University of Central Oklahoma.....60-62

Major Requirements

Software Engineering50
 Required..... 35

- ^CMSC 1621 Programming I Laboratory
- ^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 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 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.