Transfer Agreement Between Oklahoma City Community College And University of Central Oklahoma

Effective Academic Year: 2022-2023

Associate in Science-Computer Science - Computer Science
To

Bachelor of Science-Computer Science
Bachelor of Science-Computer Science-Applied
Bachelor of Science-Computer Science-Information Science
Bachelor of Science-Software Engineering

DocuSigned by:	
Mickey Jack	Qian Gang
34C8262È9372457 Mickey Jack	Dr. Gang Qian, Chair
Director of Curriculum and Assessment	Department of Computer Science
11/30/2022	10/3/2022
Date DocuSigned by:	Date
Dr. Glenne' Whisenhunt, Associate Vice President for Academic Affairs 11/30/2022 Date DocuSigned by:	DA Gloria Caddell, Dean College of Mathematics and Science
Dr. Jeremy Thomas, Provost	Dr. Donna Cobb, Associate Vice President for Academic Affairs
11/30/2022	10/11/22
Date	Date /

Transfer Agreement

Oklahoma City Community 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.

OCCC	UCO
An Associate in Science (A.S.) or Associate in Art (AA) degree from an accredited Oklahoma institution that includes the OSRHE minimum requirements will satisfy the UCO University Core.	 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 OCCC website. Credited courses completed as part of the A.A. or A.S. that do not apply to the general education at OCCC or the UCO major transfer to UCO as electives.	 American Historical and Political Analysis Cultural and Language Analysis Social and Behavioral Analysis Life Skills
Hours required for the A.S. or A.A. degree/major at OCCC62-64	Remaining hours in UCO University Core0

^CS 1143 Beginning Programming	^CMSC 1513 Beginning Programming
^MATH 1533 Pre-Calculus	^MATH 1533 Precalculus-Algebra
^MATH 1613 Trigonometry	^MATH 1593 Plane Trigonometry
CS 2163 JAVA	CMSC 1613 Programming I
CS 2363 C++	CMSC 2613 Programming II
MATH 2104 Calculus and Analytic Geometry I and	MATH 2313 Calculus 1 and
MATH 2214 Calculus and Analytic Geometry II	MATH 2323 Calculus 2

^UCO lists the following for this program: Students majoring in Software Engineering are encouraged to complete the following courses in high school: Advanced Placement High School Programming Course **OR** CMSC 1513 Beginning Programming. MATH 1533 Precalculus-Algebra **OR** Placement Score **AND** MATH 1593 Plane Trigonometry **OR** Placement Score.

*For physical science requirements in the OCCC degree, consult the UCO list on page 2 of this agreement and note appropriate course selections offered at OCCC that meet the requirements at UCO: CHEM 1115, CHEM 1215, PHYS 1114, PHYS 1214, PHYS 2014, PHYS 2114.

Total at Oklahoma City Community College	62-64
To be taken at the University of Central Oklahoma	60-66

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(May be taken at OCCC.) This signifies that a UCO course requirement can be met with the equivalent OCCC course (found on the UCO website). To take these courses at OCCC, students should confirm with their advisors that the course/s will fit into the associate degree without exceeding the requirements. A minimum of 60 hours must be taken at a baccalaureate granting institution. Exceeding 64 credit hours at the community college means the student will be required to take more than the minimum of 124 credit hour total. A minimum of 40 hours of 3/4000 level courses is required for the baccalaureate. Courses from community colleges are 1/2000 level.

Major Requirements

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Required......43
                 Programming I Laboratory
 ^CMSC 1621
 ^CMSC
          2123
                 Discrete Structures
^ CMSC
                 Programming II Laboratory
          2621
 ^CMSC
          2833
                 Computer Organization and Architecture I
                 Object Oriented Software Design and Construction
 ^SE
          3103
 ^CMSC
                 Data Structures and Algorithms
          3613
 ^CMSC
          3621
                 Data Structures and Algorithms Lab
 ^CMSC
          4003
                 Applications of Database Management Systems
                 Cybersecurity
 ^CMSC
          4083
 ^SE
          4283
                 Software Engineering I
 ^CMSC
          4401
                 Ethics in Computing
          4423
                 Software Engineering II
 ^SE
          4433
                 Software Architecture and Design
 ^SE
 ^SE
          4513
                 Software Engineering Senior Project *
 ^MATH 2333
                 Calculus 3 (May be taken at OCCC.)
 ^MATH 3143
                 Linear Algebra
 ^STAT
          2113
                 Statistical Methods (May be taken at OCCC.) 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...........8-11 (May be taken at OCCC.)
 Select a minimum of eight (8) hours including at least one of the CHEM or PHY lab courses:
                General Chemistry I
  CHEM 1103
  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
                 General Physics II and Laboratory
  PHY
          1214
                 Physics for Science & Engineering I and Lab
  PHY
                Physics 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
                Concepts of Artificial Intelligence
  CMSC 4133
  CMSC 4143
                Algorithms for Machine Learning
  CMSC 4303
                 Mobile Apps Programming
  CMSC 4313
                Internet of Things
  CMSC 4373
                Cloud Web Apps Development
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Cyberse	curity *	*
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

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.

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 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.