

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: COMPUTER SCIENCE

Catalog Year 2022–2023

### Oklahoma City Community College

### East Central University

#### Associates in Computer Science

- CS 1143 Beginning Programming
- ENGL 1113 English Composition I
- MATH 1533 Pre-Calculus and Analytic Geometry
- POLSC 1113 American Federal Government
- SCL 1001 Success in College & Life
- —3-4 hrs. Gen. Ed. Physical Science from ASTR, PHYS, CHEM or GEOL 16-17 hrs.
  
- CS 2163 Java
- CS 2453 Visual Basic
- ENGL 1213 English Composition II
- HIST 1483 U.S. History to 1877 or HIST 1493 U.S. History 1877 to Present
- MATH 1613 Trigonometry 15 hrs.
  
- CS 2363 C++
- COM 2213 Intro to Public Speaking
- MATH 2104 Calculus and Analytic Geometry I
- PSY 1113 General Psychology
- —3 hrs. Gen. Ed. Humanities 16 hrs.
  
- CS 2463 Advanced Java or CS 2553 Advanced Visual Basic or CS 2563 C#
- Math 2214 Calculus and Analytic Geometry II
- —3-4 hrs. Gen. Ed. Biological Science, except BIOL 1023
- —3 hrs. Gen. Ed. Humanities Elective
- —1 hrs. Support Elective 14-15 hrs.

**Total Credit Hours** 62-63 hrs.

\* Please see chart on second page for course equivalencies

#### Bachelors of Science in Computer Science

- CMPSC 1133 Computer Programming II
- CMPSC 3233 Linux Tools
- CPSMA 3913 Discrete Mathematics
- CPSMA 3933 Operations Research OR CPSMA 4413 Numerical Methods
- —3 hrs. Elective 15 hrs.
  
- CPSMA 2923 Data Structures & Algorithm Analysis
- CMPSC 2213 Computer Languages OR CMPSC 2323 Internet Programming
- CPSMA 3933 Operations Research OR CPSMA 4413 Numerical Methods
- Choose One: CMPSC 3213, 3543, 4223, OR 4983 OR 4273, OR CPSMA 4373
- Choose One: CMPSC 3213, 3543, 4223, OR 4983 OR 4273, OR CPSMA 4373 15 hrs.
  
- CMPSC 3613 Computer Architecture
- CMPSC 3943 Software Design & Development
- CMPSC 3113 Operating Systems
- CMPSC 3213, 3543, 4223, OR 4983 OR 4273, OR CPSMA 4373
- —4 hrs. Elective 16 hrs.
  
- CMPSC 4213 Data Base Design
- CMPSC 4473 Theory of Programming Languages
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective
- —4 hrs. Elective 16 hrs.

**Total Credit Hours** 62 hrs.

#Students are encouraged to check 4 year degree plan for course sequences and offerings.



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Oklahoma City Community College	East Central University
CS 1143 Beginning Programming*	CMPSC 0000
CS 2163 Java*	CMPSC 0000
CS 2453 Visual Basic*	CMPSC 0000
CS 2363 C++*	CMPSC 0000
CS 2463 Advanced Java*	CMPSC 0000
CS 2553 Advanced Visual Basic or CS 2563 C#	CMPSC 0000
MATH 1533 Pre-Calculus and Analytic Geometry	Math 1513
MATH 2104 Calculus and Analytic Geometry I	MATH 2825 Calculus and Analytical Geometry I
Math 2214 Calculus and Analytic Geometry II<	MATH 3025 Calculus and Analytical Geometry II

## NOTES:

- ⇒ Articulated using OCCC's A.S. in Computer Science.
- ⇒ Articulated without a minor, a minor is NOT required. It is up to the student to take 23-33 hours of electives of their choice.
- ⇒ The following course substitutions will be accepted:
 

<u>OCCC</u>	<u>ECU</u>
CS 1143 Beginning Programming	CMPSC 1113 Computer Programming I
CS 2163 Java	CMPSC 2213 Computer Languages (Java)
CS 2453 Visual Basic	CMPSC 0000
CS 2363 C++	CMPSC 2213 Computer Languages (C++)
CS 2463 Advanced Java	CMPSC 3313 Adv. Computer Languages (Java)
CS 2553 Advanced Visual Basic or CS 2563 C#	CMPSC 2213 Computer Languages (C#)
- ⇒ < Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.
- ⇒ General Education equivalencies can be found by referring to either the Oklahoma State Regents Transfer Matrix or the ECU Transfer Matrix. Both matrices can be found at [www.ecok.edu](http://www.ecok.edu) by clicking on *Academics* and scrolling down to *Course Transfer Matrix*.
- ⇒ A student transferring with an Associate degree in Arts or Science from OCCC fulfills ECU's general education requirement by transferring his or her credit to East Central University. Transferring credit for general education does not eliminate or otherwise affect any of the following ECU requirements: (1) prerequisites; (2) specific requirements in majors, minors or related work in these areas; or (3) the requirements for teacher certification.
- ⇒ A student must earn at least 40 semester hours in upper-division courses (numbered 3000 or higher). A course taught at OCCC may equate in content to an ECU 3000-4000 level course, but it will not be counted as part of the 40 hours of upper level courses.
- ⇒ A student must earn at least 60 semester hours, excluding physical activity courses, at a baccalaureate degree granting institution.
- ⇒ A Student must earn at least 124 credit hours that apply to an ECU Bachelor's degree.