

**Transfer
with
Ease**

Articulation Agreement

BACHELOR OF SCIENCE: COMPUTER SCIENCE

Catalog Year 2022 - 2023

Murray State College

East Central University

Associate of Science Computer Science Mathematics Option

- COL 1211 Academic Success
- ENG 1113 English Comp I
- HST 1483 U.S. History to 1877 OR HST 1493 U.S. History since 1877
- MTH 1513 Pre-Calculus*
- CS 1613 Programming I
- ~ 3 hrs. HUM Elective 16 hrs.

- ENG 1213 English Comp II
- MTH 1613 Plane Trigonometry*
- PHS 1114 General Physical Science
- GVT 1113 American Federal Government
- CS 1623 Programming II 16 hrs.

- MTH 2215 Calculus w/Analytic Geometry*
- BC 2113 Business Communications * <
- BIO 1114 General Biological Science
- CIS 2213 Data Base Management 15 hrs.

- HWP 1112 Personal Health or NUT 1553 - Nutrition
- ECO 2113 Principles of Macroeconomics
- CIS 1653 Data Com/Network Fund
- ~3 hrs. Program Elective
- ~3 hrs. Program Elective
- ~3 hrs. Hum Elective 14-15 hrs.

Total Credit Hours **61-62 hrs.**

Bachelor of Science—Computer Science

- Math 1713 Trigonometry
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective
- ~3 hrs. CMPSC Elective
- —4 hrs. Upper Level Elective 16 hrs.

- CPSMA 2923 Data Structure & Algorithm Analysis
- CPSMA 3913 Discrete Mathematics
- —3 hrs. Required Elective (CPSMA 3933, 4413, 4373, CMPSC 4373 or department approved course)
- —3 hrs. Required Elective (CMPSC 2213 or 2323)
- —3 hrs. Upper Level Elective 15 hrs.

- CMPSC 3613 Computer Architecture
- —6 hrs. Required Elective (CMPSC 3213, 3313, 3233, 3543, 4223, 4273, 4983 OR CPSMA 4273)
- —3 hrs. Required Elective (CPSMA 3933, 4413 or department approved course)
- ~3 hrs. Upper Level Elective 15 hrs.

- CMPSC 4473 Theory of Programming Languages
- CMPSC 4213 Data Base Design
- CMPSC 3113 Operating Systems
- CMPSC 3943 Software Design & Development
- —4 hrs. Upper Level Elective 16 hrs.

Total Credit Hours **64 hrs.**

* Please, see chart on second page for course equivalencies.



YOUR FUTURE - YOUR CHOICE



Course Equivalency Table

Murray State College	East Central University
BC 2113 Business Communications <	BUCOM 3133 Business Comm. & Report Writing
CS 1613 Programing I	CMPSK 1113 Programming I
CS 1623 Programming II	CMPSK 1133 Computer Programming II
MTH 1513 Pre Calculus	MATH 1513 College Algebra
MTH 1613 Plane Trigonometry	MATH 1713 Trigonometry
MTH 2215 Calculus w/Analytic Geometry	MATH 2825 Calculus & Analytic Geometry I

NOTES:

- ⇒ Articulated using MSC's A.S. in Science **Computer Science Mathematics Option** and without a Minor. A Minor is not required.
- ⇒ < Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.
- ⇒ A student transferring with an Associate degree in Arts or Science from MSC 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. 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 by clicking on *Admissions* and scrolling down to *Course Transfer Matrix*.
- ⇒ A student must earn at least 40 semester hours in upper-division courses (numbered 3000 or higher). A course taught at MSC 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.