Murray State College

East Central University

Associate of Science
Computer Science Mathematics Option

- CIS 1113 Computer Applications
- 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*
- ⁓4 hrs. Science Elective w/ Lab   **17 hrs.**

- HWP 1112 Personal Health
- ENG 1213 English Comp II
- MTH 1613 Plane Trigonometry*
- ⁓4 hrs. Science Elective w/ Lab
- ⁓3 hrs. Humanities Elective   **15 hrs.**

- CS 1613 Programming I*
- MTH 2215 Calculus I w/ Analytic Geometry*
- PHY 1114 General Physics I
- ⁓3 hrs. Humanities Elective   **16 hrs.**

- GVT 1113 American Federal Government
- MTH 1213 Intro to Statistics* ‡
- PHY 1214 General Physics II
- ⁓3 hrs. Arts Elective   **14 hrs.**

Total Credit Hours   62 hrs.

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

Bachelor of Science—Mathematics

- MATH 3025 Calculus & Analytic Geometry II
- MATH 3093 Intro-Theorem Proving & No. Theory
- ⸺3 hrs. Upper Level Elective
- ⸺4 hrs. Elective   15 hrs.

- MATH 3033 Calculus & Analytic Geometry III
- MATH 3713 Linear Algebra
- MATH 4133 Intermediate Analysis OR MATH 4113
- MATH ⸺3 hrs. Upper Level Math Elective
- ⸺3 hrs. Elective   15 hrs.

- MATH 3813 Modern Algebra
- MATH 4923 Perspectives in Mathematics
- MATH ⸺3 hrs. Upper Level Mathematics Elective
- ⸺3 hrs. Elective
- ⸺3 hrs. Elective   15 hrs.

- MATH 4113 Differential Equations OR MATH 4133
- MATH ⸺6 hrs. Upper Level Mathematics Elective
- ⸺3 hrs. Elective
- ⸺3 hrs. Elective   **15 hrs.**

Total Credit Hours   62 hrs.

Course Equivalency Table

Murray State College	East Central University
MATH 1213 Intro To Statistics ‡	MATH 0214 Intermediate Algebra
MTH 1513 College Algebra	MATH 1513 College Algebra
MTH 1613 Plane Trigonometry	MATH 1713 Trigonometry
MTH 2215 Calculus I w/ Analytic Geometry	MATH 2825 Calculus and Analytical Geometry I
MTH 2315 Calculus II w/ Analytic Geometry <	MATH 3025 Calculus and Analytical Geometry II
CS 1613 Programming I	CMPSC 1113 Computer Programming I

NOTES:

⇒ Articulated using MSC's A.S.in Science Computer Science and 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.

⇒ ‡ MATH 1213 Intro to Statistics is not evaluated at the Regents level as a Statistics course. This course will have to be substituted for ECU's Math 1223 Intro to Probability and Statistics.

⇒ 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 <u>at least 40 semester hours in upper-division</u> 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 <u>at least 60 semester hours</u>, excluding physical activity courses, at a baccalaureate degree granting institution.

⇒ A Student must earn <u>at least 124 credit hours</u> that apply to an ECU Bachelor's degree.