

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: CARTOGRAPHY

### Geotechniques Concentration

Catalog Year 2022 - 2023

#### Murray State College

#### East Central University

##### Associate in Science—General Studies

- CIS 1113 Computer Applications\*
- COL 1211 Success Strategies
- ENG 1113 English Comp I
- HST 1483 U.S. History Survey To 1877 OR HST 1493 U.S. History Survey Since 1877
- ---3 hrs. Arts Elective\*
- ---3 hrs. Humanities Elective **16 hrs.**
  
- GEO 1113 or GEO 2443 Human & Cultural Geography\*
- ENG 1213 English Comp II
- MTH 1513 Pre Calculus\*
- SCI 2224 Earth, Space, & Environmental Science\*
- ---3 hrs. Humanities Elective **16 hrs.**
  
- GEO 2513 World Regional Geography\*
- ---4 hrs. Science w/ Lab Elective
- ---3 hrs. Liberal Arts Elective
- ---3 hrs. Statistics course\*
- ---3 hrs. Program Elective **16 hrs.**
  
- GEO 1223 Economic Geography \* <
- GVT 1113 American Federal Government
- HWP 1112 Personal Health
- ---7 hrs. Program Elective **15 hrs.**

**Total Credit Hours 63 hrs.**

\* Please see chart on second page for course equivalencies

##### Bachelor of Science—Cartography

- CARTO 2253 Elements of Cartography
- CARTO 3953 Intro to Geographic Info Systems
- CMPSC 1113 Computer Programming
- ---3 hrs. Minor or Elective
- ---4 hrs. Minor or Elective **16 hrs.**
  
- CARTO 2713 Elements Data Collection/Field Studies
- CARTO 3613 Advanced Cartography
- CARTO 4953 Advanced Geographic Info Systems
- ---3 hrs. Upper Level Minor or Elective
- ---3 hrs. Minor or Elective **15 hrs.**
  
- Summer Semester**
- CARTO 4943 Internship **3 hrs.**
  
- CARTO 3753 Aerial Photography and Remote Sensing
- GECAR 3233 Geospatial Research Design & Analysis
- ENG 3183 Technical & Professional Writing OR ENG 3193 Persuasive Writing and Logic
- ---3 Upper Level Minor or Elective
- ---3 Minor or Elective **15 hrs.**
  
- GECAR 4653 Senior Capstone Project
- CARTO 4753 Advanced Remote Sensing
- ---3 Required Upper Level Elective CARTO/GEO/ GESOC (If Internship Not Taken)
- ---3 Upper Level Minor or Elective
- ---3 Upper Level Minor or Elective **12 hrs.**

**Total Credit Hours 61 hrs.**



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Murray State College	East Central University
GEO 1113 or GEO 2443 Human & Cultural Geography	GEOG 1113 Elements of Human Geography
GEO 1223 Economic Geography <	GEOG 3323 Economic Geography
GEO 2513 World Regional Geography	GEOG 2513 World Regional Geography
MTH 1513 Pre Calculus	MATH 1513 College Algebra
SCI 2224 Earth, Space, & Environmental Science	GEOG 1214 Earth Science
Statistics Course	Statistics Requirement

## NOTES:

- ⇒ Articulated using MSC's A.S. in Science General Studies 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](http://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.