

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: BIOLOGY

Catalog Year 2022- 2023

### Murray State College

### East Central University

#### Associate of Science—Science

#### Bachelor of Science—Biology

- BIO 1114 General Biological Science
- CIS 1113 Computer Applications
- COL 1211 Academic Success
- ENG 1113 English Comp I
- HWP 1112 Personal Health
- MTH 1513 Pre Calculus\* 16 hrs.
  
- CHM 1114 General Chemistry I\*
- ENG 1213 English Comp II
- HST 1483 U.S. History to 1865 **OR**  
HST 1493 U.S. History since 1865
- PHS 1114 General Physical Science
- ~3 hrs. Humanities Elective 17 hrs.
  
- BOT 1114 General Botany\*
- CHM 1214 General Chemistry II\*
- PHY 1114 Physics I\*
- SPC 1113 Fundamentals of Speech 15 hrs.
  
- GVT 1113 American Federal Government
- PSY 1113 Intro to Psychology
- PHY 1214 General Physics II\*
- ZOO 1114 General Zoology\*
- —3 hrs. Art Elective 17 hrs.
  
- Total Credit Hours** **65 hrs.**

- BIOL 2184 Human Anatomy **OR** BIOL 3245  
Comparative Vertebrate Anatomy
- BIOL 2344 General Microbiology
- CHEM 3114 Organic Chemistry I
- —3 hrs. General Humanities 15 hrs.
  
- BIOL 3434 Genetics
- BIOL 3634 Human Physiology
- —4 hrs. Upper Level Biology
- —5 hrs. Elective 17 hrs.
  
- BIOL 4313 Cell & Molecular Biology
- —4 hrs. Biology Upper Level Required Elective
- —3 hrs. Upper Level Minor or Elective
- —5 hrs. Minor or Elective 15 hrs.
  
- BIOL 4414 Ecology
- BIOL 4881 Biology Senior Seminar
- —4 hrs. Biology Required Elective
- —3 hrs. Upper Level Minor or Elective
- —3 hrs. Upper Level 15 hrs.
  
- Total Credit Hours** **62 hrs.**

\* Please see chart on second page for course equivalencies



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Murray State College	East Central University
BOT 1114 General Botany	BIOL 1214 General Botany
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
MTH 1513 Pre Calculus	MATH 1513 College Algebra
PHY 1114 General Physics I	PHYS 1114 General Physics I
PHY 1214 General Physics II	PHYS 1214 General Physics II
ZOO 1114 General Zoology	BIOL 1314 General Zoology

**NOTES:**

- ⇒ Articulated using MSC's A.S. in Science and without a Minor. A Minor is not required.
  
- ⇒ 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.