

**Transfer
with
Ease**

Articulation Agreement

BACHELOR OF SCIENCE: BIOLOGY

Molecular

Catalog Year 2022 - 2023

Murray State College

East Central University

Associate of Science—Science

Bachelor of Science—Biology

- BIO 1114 General Biological Science
- COL 1211 Academic Success
- ENG 1113 English Comp I
- HST 1483 U.S. History to 1865 **OR**
HST 1493 U.S. History since 1865
- HWP 1112 Personal Health
- MTH 1513 Pre Calculus* **16 hrs.**

- AP 2124 Anatomy and Physiology I*
- CHM 1114 General Chemistry I*
- CIS 1113 Computer Applications
- ENG 1213 English Comp II
- —3 hrs. Art Elective **17 hrs.**

- AP 2134 Anatomy and Physiology II * <
- CHM 1214 General Chemistry II*
- PSY 1113 Intro to Psychology
- ZOO 1114 General Zoology* **15 hrs.**

- GVT 1113 American Federal Government
- MIC 2224 Introduction to Microbiology*
- PHY 1114 Physics I
- SPC 1113 Fundamentals of Speech
- —3 hrs. Humanities Elective **17 hrs.**

- Total Credit Hours 65 hrs.**

- CHEM 3114 Organic Chemistry I
- BIOL 1214 General Botany
- PHYS 1214 Physics II
- —3 Upper Level Electives **15 hrs.**

- BIOL 3434 Genetics
- BIOL—3 Required Molecular Biology Elective
- Math 2825 Calculus
- Choose one: EHS 3703, Math 1223, or SOC 3833 **15 hrs.**

- BIOL—3 Required Molecular Biology Elective
- BIOL 4313 Cell & Molecular Biology
- CHEM 4213 Biochemistry
- CHEM 4221 Biochemistry Lab
- —4 Upper Level Electives **14 hrs.**

- BIOL 4545 Advanced Molecular Biology
- BIOL 4881 Biology Senior Seminar
- BIOL—3 Required Molecular Biology Elective
- BIOL 3013 Research Methods and Bioethics
- —4 hrs. Upper Level Electives **16 hrs.**

- Total Credit Hours 60 hrs.**

* Please see chart on second page for course equivalencies



YOUR FUTURE - YOUR CHOICE



Course Equivalency Table

Murray State College	East Central University
AP 2124 Anatomy and Physiology I	BIOL 2184 Human Anatomy
AP 2134 Anatomy and Physiology II <	BIOL 3634 Human Physiology
BIO 1114 General Biological Sciences	BIOL 1114 General Biology
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
MIC 2224 Introduction to Microbiology*	BIOL 2344 General Microbiology
MTH 1513 Pre Calculus	MATH 1513 College Algebra
PHY 1114 General Physics I	PHYS 1114 General Physics I
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.
- ⇒ < 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.