

# East Central University/Murray State College Articulation Agreement

## Bachelor of Science: Biology

### Molecular Biology Concentration Catalog Year 2017-2018

#### Associate of Science—Science

- ENG 1113 English Comp I
- HST 1483 U.S. History to 1865 **OR**  
HST 1493 U.S. History since 1865
- MTH 1513 College Algebra\*
- BIO 1114 Principals of Biology
- HWP 1112 Personal Health
- COL 1211 Academic Success 16

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

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

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- PHY 1114 Physics I\*
- MIC 2224 Introduction to Microbiology\*
- GVT 1113 American Federal Government
- SPC 1113 Fundamentals of Speech
- 3 Art Elective 17

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- Total Credit Hours 65

\* please see chart on second page  
for course equivalencies



#### Bachelor of Science—Biology

- CHEM 3114 Organic Chemistry I
- BIOL 1214 General Botany
- Choose one: EHS 3703, Math 2213, or SOC 3833
- PHYS 1214 Physics II 15

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- BIOL 3434 Genetics
- BIOL—3 Required Molecular Biology Elective
- Math 2825 Calculus
- 3 Elective 16

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- BIOL—3 Required Molecular Biology Elective
- BIOL 4313 Cell & Molecular Biology
- CHEM 4213 Biochemistry
- CHEM 4221 Biochemistry Lab
- 3 Elective 13

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- BIOL 4545 Advanced Molecular Biology
- BIOL 4881 Biology Senior Seminar
- BIOL—3 Required Molecular Biology Elective
- BIOL 3103 Research Methods
- 4 Upper Level Elective 15

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- Total Credit Hours 60



**Total Credit Hours Required for BS Degree: 125**  
**Total Hours Completed: 126**

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## **Bachelor of Science: Biology**

### **Course Equivalency Table**

<b>Murray State College</b>	<b>East Central University</b>
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
BIOL 1404 Principles of Biology	BIOL 1114 General Biology
ZOO 1114 General Zoology	BIOL 1314 General Zoology
AP 2124 Anatomy and Physiology I	BIOL 2184 Human Anatomy
AP2134 Anatomy and Physiology II	BIOL 3634 Human Physiology
MIC 2224 Intro to Microbiology	BIOL 2344 General Microbiology
MTH 1513 College Algebra	MATH 1513 College Algebra
PHY 1114 General Physics I	PHYS 1114 General Physics I

Articulated using MSC's A. S in Science.

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 *Academics* and scrolling down to *Course Transfer Matrix*.

Articulated 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.**

#### **NOTES:**

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.

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.