

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: BIOLOGY

### Molecular Biology Catalog Year 2021–2022

#### Oklahoma City Community College

#### East Central University

##### Associate in Science—Pre-Medicine

- BIO 1124 General Biology I (Majors)
- CHEM 1115 General Chemistry I\*
- ENGL 1113 English Composition I
- MATH 1483 Functions and Modeling\*
- SCL 1001 Success in College and Life 16 hrs.

- ENGL 1213 English Composition II
- CHEM 1215 General Chemistry II\*
- MATH 1613 Trigonometry\*
- PHYS 1114 College Physics I\* 15 hrs.

- BIOL 2215 General Zoology\* (Support)
- CHEM 2114 Organic Chemistry I\*
- PSY 1113 General Psychology OR SOC 1113 Introduction to Sociology
- —3 hrs. Gen. Ed. Humanities Elective 15 hrs.

- CHEM 2111 and CHEM 2121 Org. Chem. III Labs
- CHEM 2124 Organic Chemistry II
- HIST 1483 U.S. History to 1877 War OR HIST 1493 U.S. History 1877 to Present
- POLSC 1113 American Federal Government
- —3 hrs. Gen. Ed. Humanities Elective
- —1 hr. Support Elective 15 hrs.

**Total Credit Hours** 61 hrs.

\* Please see chart on second page for course equivalencies

##### Bachelor of Science—Biology

- BIOL 1214 General Botany
- BIOL 2344 General Microbiology
- BIOL 3013 Research Methods and Bioethics
- Choose One: EHS 3703, MATH 1223, OR SOC 3833 16 hrs.

- BIOL 2243 Intro to Biotechnology
- BIOL 3434 Genetics
- BIOL 3634 Human Physiology
- BIOL 2184 Human Anatomy OR BIOL 3245 Comparative Vertebrae Anatomy
- —3 hrs. Required Upper-Level Electives 15-16 hrs.

- BIOL 4313 Cell & Molecular Biology
- CHEM 4213 Biochemistry
- CHEM 4221 Biochemistry Lab
- PHYS 1214 General Physics II
- —6 hrs. Upper-Level Electives 17 hrs.

- BIOL 4545 Advanced Molecular Biology
- BIOL 4881 Biology Senior Seminar
- MATH 2613 Calculus for Bus, Life & Soc Science OR MATH 2825 Calculus & Analytic Geometry I
- —3 hrs. Required Molecular Biology Upper Level Elective 17-18 hrs.

**Total Credit Hours** 65-66 hrs.

Students are encouraged to check 4 year degree plan for course sequences and offerings



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Oklahoma City Community College	East Central University
BIO 1124 General Biology I (Majors)	BIOL 1114 General Biology
BIO 2215 General Zoology	BIOL 1314 General Zoology
CHEM 1115 General Chemistry I	CHEM 1114 General Chemistry I
CHEM 1215 General Chemistry II	CHEM 1214 General Chemistry II
CHEM 2114 Organic Chemistry I**	CHEM 3114 Organic Chemistry I
CHEM 2121 Organic Chemistry II Lab	NOEVAL
CHEM 2124 Organic Chemistry II	CHEM 4114 Organic Chemistry II
MATH 1483 Functions and Modeling	MATH 1613 Functions and Modeling
PHYS 1114 College Physics I	PHYS 1114 General Physics I

## NOTES:

- ⇒ Articulated using OCCC's A.S. in Pre-Medicine.
- ⇒ Articulated with a minor in Chemistry. Although a minor is not required, if a different minor is desired, please see an advisor for appropriate courses.
- ⇒ 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*.
- ⇒ \*\*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 OCCC 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 OCCC 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.