

Transfer
with
Ease

Articulation Agreement

BACHELOR OF SCIENCE: CHEMISTRY

Biochemistry Concentration Catalog Year 2021–2022

Oklahoma City Community College

East Central University

Associate in Science—Chemistry

- BIO 1124 General Biology I (Majors)
- CHEM 1115 General Chemistry I*
- ENGL 1113 English Composition I
- MATH 1533 Pre-Calculus and Analytic Geometry
- MATH 1613 Trigonometry*
- SCL 1001 Success in College and Life **19 hrs.**

- ENGL 1213 English Composition II
- CHEM 1215 General Chemistry II*
- MATH 2104 Calculus and Analytic Geometry I* ‡
- —3 hrs. Gen. Ed. Humanities Elective **15 hrs.**

- CHEM 2114 Organic Chemistry I*
- PHYS 1114 College Physics I*
- POLSC 1113 American Federal Government
- PSY 1113 General Psychology OR SOC 1113 Intro to Sociology
- —3 hrs. Gen. Ed. Humanities Elective **17 hrs.**

- CHEM 2111 and CHEM 2121 Org. Chem. III Labs
- CHEM 2124 Organic Chemistry II*
- HIST 1483 U.S. History to 1877 OR HIST 1493 U.S. History 1877 to Present
- PHYS 1214 College Physics II* (Support)
- —1 hr. Support Elective **14 hrs.**

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

* ‡ Please see chart on second page for course equivalencies

Bachelor of Science—Chemistry

- BIOL 1314 General Zoology OR BIOL 2344 Microbiology
- BIOL 2184 Anatomy
- PHYS 1214 General Physics II
- —3 hrs. Upper Level Elective **15 hrs.**

- BIOL 3634 Human Physiology
- BIOL 4313 Cell and Molecular Biology
- CHEM 3214 Quantitative Analysis I
- —3 hrs. Upper Level Elective **14hrs.**

- CHEM 4514 Physical Chemistry I
- CHEM 4213 Biochemistry
- CHEM 4221 Biochemistry Lab
- CHEM 4413 Advanced Inorganic Chemistry
- —4 hrs. Elective **15 hrs.**

- BIOL 4545 Advanced Molecular Biology
- CHEM 3484 Instrumental Analysis
- CHEM 4523 Advanced Biochemistry
- CHEM 4531 Advanced Biochemistry Lab
- —3 hrs. Elective **16 hrs.**

- Total Credit Hours** **60 hrs.**

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



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Course Equivalency Table

Oklahoma City Community College	East Central University
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 Laboratory	NOEVAL
CHEM 2124 Organic Chemistry II**	CHEM 4114 Organic Chemistry II
MATH 1613 Trigonometry	MATH 1713 Trigonometry
MATH 2104 Calculus and Analytic Geometry I ¥	MATH 2825 Calculus & Analytic Geometry I
PHYS 1114 College Physics I	PHYS 1114 General Physics I
PHYS 1214 College Physics II	PHYS 1214 General Physics II

NOTES:

- ⇒ Articulated using OCCC's A.S. in Chemistry.
- ⇒ Articulated without a minor. A minor is required, please see an advisor for appropriate courses.
- ⇒ ¥ MATH 2104 Calculus and Analytic Geometry I which is equivalent to MATH 2825 Calculus & Analytic Geometry I. OCCC is not requiring this course, but it is a pre-requisite for MATH 3025 Calculus & Analytic Geometry II
- ⇒ 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 *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.