

Transfer  
with  
Ease

# Articulation Agreement

## BACHELOR OF SCIENCE: CHEMISTRY

### Biochemistry

Catalog Year 2022 - 2023

#### Seminole State College

#### East Central University

##### Associate in Arts in Liberal Studies Physical Sciences Emphasis

- ENG 1113 Composition I
- HIST 1483 American History Survey To 1877 OR  
HIST 1493 American History Survey Since 1877
- MATH 1513 Pre-Calculus\*(Eng.-Phys.-CS)
- PHYS1114 General Physical Science
- SOC 1101 Freshman Seminar
- —3 hrs. Humanities Elective 17 hrs.
  
- CAP 1103 Introduction to Microsoft Office
- ENG 1213 Composition II
- GOV 1113 American National Government
- BIOL 1214 Principles of Biology
- MATH 1613 Plane Trigonometry\* 16 hrs.
  
- CHEM 1315 General Chemistry I\*
- HPER 1012 Wellness and Human Development
- MATH 2215 Calculus and Analytic Geometry I\*
- SPCH 1143 Speech 15 hrs.
  
- CHEM 1515 General Chemistry II\*
- PHYS 2114 General Physics I\*
- —3 hrs. Humanities Elective
- —3 hrs. Required Elective 15 hrs.

Total Credit Hours 63 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
- CHEM 3114 Organic Chemistry I
- PHYS 1214 General Physics II 16 hrs.
  
- BIOL 3634 Human Physiology
- BIOL 4313 Cell and Molecular Biology
- CHEM 3214 Quantitative Analysis I
- CHEM 4114 Organic Chemistry II 15 hrs.
  
- 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 62 hrs.



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# Course Equivalency Table

Seminole State College	East Central University
MATH 1513 Pre-Calculus	MATH 1513 College Algebra
MATH 1613 Plane Trigonometry	MATH 1713 Trigonometry
CHEM 1315 General Chemistry I	CHEM 1114 General Chemistry I
CHEM 1515 General Chemistry II	CHEM 1214 General Chemistry II
PHYS 2114 General Physics I	PHYS 1114 General Physics I
MATH 2215 Calculus and Analytic Geometry I	MATH 2825 Calculus & Analytic Geometry I

**NOTE:**

- ▮ PHY 2014 Engineering Physics I and PHY 2114 Engineering Physics II maybe taken in place of PHY 1114 and PHY 1214
- ▮ CHEM 3484 Instrumental Analysis is only offered in the Spring semester on even years.
- ▮ CHEM 4413 Advanced Inorganic Chemistry is only offered in the Spring Semester on odd years.
- ▮ CHEM 3214 Quantitative Analysis I is offered every Spring
- ▮ CHEM 4514 is ONLY offered in the Fall of even numbered years.

**NOTES:**

- ⇒ Articulated using SSC's A.S. for Life Science and without a Minor. A Minor is not required.
- ⇒ A student transferring with an Associate degree in Arts or Science from SSC 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 SSC 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.