

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: PHYSICS

### Teacher Certification Catalog Year 2020 - 2021

#### Eastern Oklahoma State College

#### East Central University

##### Associate of Science - Physical Science

##### Bachelor of Science—Physics

- BIOL 1114 General Biology
- ENGL 1113 Freshman Composition I
- MATH 1513 College Algebra\*
- OLS 1111 Orientation and Library Science
- POL SC 1113 American Federal Government
- SPCH 1113 Fundamentals of Speech **17 hrs.**
  
- CHEM 1315 General College Chemistry I\*
- ENGL 1213 Freshman Composition II
- HIST 1483 American History to 1877 OR HIST 1493 American History since 1877
- MATH 1613 Trigonometry\*
- PHY 2014 Engineering Physics I\* **18 hrs.**
  
- CHEM 1415 General College Chemistry II\*
- CIS 1113 Computer Applications
- MATH 2235 Calculus I\*
- PSY 1113 Introduction to Psychology **16 hrs.**
  
- MATH 2245 Calculus II \* <
- PHY 2114 Engineering Physics II\*
- SPAN 1115 Elementary Spanish I
- —6 hrs. Humanities (VI B) **15 hrs.**

**Total Credit Hours 66 hrs.**

\* Please, see chart on second page for course equivalencies

- EDUC 2012 Diversity in American Education
- EDUC 2211 Field Experience I
- EDUC 2402 Survey of Exceptional Children
- EDUC 2631 Foundations of Educ Tech
- PHYS 3013 Modern Physics
- PHYS 1314 Astronomy
- PHYS 3412 Junior Physics Laboratory
- PSYCH 3463 Child & Adol Psych **18 hrs.**
  
- EDUC 3001 Field Experience II
- EDUC 3513 Educational Psychology
- PHYS 3113 Mechanics I
- —3 Chemistry Elective
- —2 Required Physics Elective
- —1 Elective **13 hrs.**
  
- B/C/P 4113 Methods of Teaching Bio/Physical Science
- EDUC 4043 Strategies for Effective Teaching
- EDUC 4611 Field Experience III
- EDUC 4632 Educational Tech Integration Strategies
- GEOG 1214 Earth Science
- PHYS 4113 Electricity & Magnetism - Field Theory
- —4 hrs. Chemistry Elective **20 hrs.**
  
- EDUC 4262 Student Teaching Seminar I
- EDUC 4282 Student Teaching Seminar II
- EDUC 4974 Supervised Student Teaching
- EDUC 4974 Supervised Student Teach **12 hrs.**

**Total Credit Hours 63 hrs.**



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Eastern Oklahoma State College	East Central University
BIOL 1114 General Biology	BIOL 1114 General Biology
CHEM 1315 General College Chemistry I	CHEM 1114 General Chemistry I
CHEM 1415 General College Chemistry II	CHEM 1214 General Chemistry II
MATH 1513 College Algebra	MATH 1513 College Algebra
MATH 1613 Trigonometry	MATH 1713 Trigonometry
MATH 2235 Calculus I	MATH 2825 Calculus & Analytic Geometry I
Math 2245 Calculus II <	MATH 3025 Calculus & Analytic Geometry II
PHY 2014 Engineering Physics I	PHYS 2115 Engineering Physics I
PHY 2114 Engineering Physics II	PHYS 2225 engineering Physics II
PSY 1113 Introduction to Psychology	PSYCH 1113 General Psychology
SPCH 1113 Fundamentals of Speech	COMM 1113 Fundamentals of Human Communication

< Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.

## NOTES:

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