

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: PHYSICS

### Medical Physics Catalog Year 2022- 2023

#### Eastern Oklahoma State College

#### East Central University

##### Associate of Science - Physical Science

##### Bachelor of Science—Physics

- ENGL 1113 Freshman Composition I
- MATH 1513 College Algebra\*
- MATH 1613 Trigonometry\*
- OLS 1111 Orientation and Library Science
- POL SC 1113 American Federal Government
- —4 hrs. Life Science Elective **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 2235 Calculus I\* **16 hrs.**

- CIS 1113 Computer Applications
- MATH 2245 Calculus II\*
- PHY 2014 Engineering Physics I\*
- —3 Humanities (VI A) **15 hrs.**

- PHY 2114 Engineering Physics II\*
- CHEM 1415 Chemistry II\*
- SPCH 2233 Business & Professional Speaking
- —3 hrs. Social Science Elective (PSY 1113, SOC 1113,  
GEOG 2723, ECON 2113 or 2123)
- —3 hrs. Humanities (VI B) **18 hrs.**

**Total Credit Hours 66 hrs.**

- BIOL 2184 Human Anatomy
- MATH 3033 Calculus & Analytic Geometry III
- PHYS 3013 Modern Physics
- —3 hrs. Required Physics Upper Level Elective
- —2 hrs. Elective **15 hrs.**

- BIOL 2113 Medical Terminology OR EHS 2413  
Radiologic Health
- CMPSC 1113 Computer Programming I
- MATH 4113 Differential Equations
- MATH 3513 Mathematical Statistics, Math 3583  
OR SOC 3833
- PHYS 3412 Junior Physics Laboratory
- —2 hrs. Elective **16 hrs.**

- BIOL 3634 Human Physiology
- CHEM 3114 Organic Chemistry I
- ENGL 3183 Technical & Professional Writing
- —2 hrs. Required Physics Upper Level Elective
- —3 hrs. Elective **16 hrs.**

- PHYS 3222 Medical Physics
- PHYS 3713 Thermodynamics
- PHYS 4222 X-Ray & Nuclear Lab
- PHYS 4313 Intro to Nuclear Physics **13 hrs.**

**Total Credit Hours 60 hrs.**

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



**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
SPCH 2233 Business & Professional Speaking	COMM 2253 Communication in the Workplace

< 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.