

East Central University/Eastern Oklahoma State College Articulation Agreement

Bachelor of Science: Physics

Catalog Year 2017-2018

Associate of Science—Physical Science

<input type="checkbox"/> OLS 1111 Orientation and Library Science	
<input type="checkbox"/> ENGL 1113 Freshman Composition I	
<input type="checkbox"/> POL SC 1113 American Federal Government	
<input type="checkbox"/> —4 Life Science Elective	
<input type="checkbox"/> SPCH 1113 Fundamentals of Speech OR SPCH 2233 Business & Professional Speaking	
<input type="checkbox"/> MATH 1513 College Algebra*	17
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<input type="checkbox"/> ENGL 1213 Freshman Composition II	
<input type="checkbox"/> CHEM 1315 General College Chemistry I*	
<input type="checkbox"/> HIST 1483 American History to 1877 OR HIST 1493 American History since 1877	
<input type="checkbox"/> MATH 1613 Trigonometry*	
<input type="checkbox"/> PHY 2014 Engineering Physics I*	18
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<input type="checkbox"/> MATH 2235 Calculus I*	
<input type="checkbox"/> CHEM 1415 General College Chemistry II*	
<input type="checkbox"/> CIS 1113 Computer Applications	
<input type="checkbox"/> —3 Humanities (VI A)	16
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<input type="checkbox"/> MATH 2245 Calculus II*	
<input type="checkbox"/> —3 Humanities (VI B)	
<input type="checkbox"/> PHY 2114 Engineering Physics II*	
<input type="checkbox"/> —3 Social Science Elective (PSY 1113, SOC 1113, GEOG 2723, ECON 2113 or 2123)	15
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Total Credit Hours	66

Bachelor of Science—Physics

<input type="checkbox"/> MATH 4113 Differential Equations	
<input type="checkbox"/> PHYS 3013 Modern Physics	
<input type="checkbox"/> PHYS 3813 Optics	
<input type="checkbox"/> PHYS 4113 Electricity & Magnetism-Field Theory	
<input type="checkbox"/> —3 Elective	15
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<input type="checkbox"/> MATH 3033 Calculus & Analytic Geometry III	
<input type="checkbox"/> CMPSC 1113 Computer Programming I	
<input type="checkbox"/> PHYS 3113 Mechanics I	
<input type="checkbox"/> PHYS 3412 Junior Physics Laboratory	
<input type="checkbox"/> —3 Elective	
<input type="checkbox"/> —2 Elective	16
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<input type="checkbox"/> PHYS 4513 Quantum Mechanics	
<input type="checkbox"/> —2 Required Physics Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Elective	14
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<input type="checkbox"/> PHYS 4313 Intro to Nuclear Physics	
<input type="checkbox"/> PHYS 3713 Thermodynamics	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Elective	
<input type="checkbox"/> —3 Elective	15
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Total Credit Hours	60

* please see chart on second page
for course equivalencies



Total Credit Hours Required for BS Degree: 126
Total Credit Hours Applies to BS Degree: 124

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Course Equivalency Table

Eastern Oklahoma State College	East Central University
MATH 1513 College Algebra	MATH 1513 College Algebra
CHEM 1315 General College Chemistry I	CHEM 1114 General Chemistry I
PHY 2014 Engineering Physics I	PHYS 2115 Engineering Physics I
PHY 2114 Engineering Physics II	PHYS 2225 Engineering Physics II
CHEM 1415 General College Chemistry II	CHEM 1214 General Chemistry II
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

Articulated using EOSC's A.S. in Physical Science.

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*.

Articulated without a minor. A minor is not required, please see an advisor for appropriate courses.

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

NOTES:

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.

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.