

East Central University/Seminole State College Articulation Agreement

Bachelor of Science : Physics

Catalog Year 2017-2018

Associate in Science—Pre-Engineering

<input type="checkbox"/> SOC 1101 Freshman Seminar	
<input type="checkbox"/> ENG 1113 Composition I	
<input type="checkbox"/> ENGR 1113 Intro to Engineering	
<input type="checkbox"/> MATH 1513 Pre-Calculus*	
<input type="checkbox"/> MATH 1613 Plane Trigonometry*	
<input type="checkbox"/> —3 Humanities Elective	16
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<input type="checkbox"/> ENG 1213 Composition II	
<input type="checkbox"/> GOV 1113 American National Government	
<input type="checkbox"/> MATH 2215 Calculus and Analytic Geometry I*	
<input type="checkbox"/> PHYS 2114 General Physics I*	
<input type="checkbox"/> PHYS 2211 Calculus Based Physics I*	16
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<input type="checkbox"/> SPCH 1143 Speech	
<input type="checkbox"/> PHYS 2224 General Physics II*	
<input type="checkbox"/> PHYS 2231 Calculus Based Physics II*	
<input type="checkbox"/> MATH 2424 Calculus and Analytic Geometry II*	
<input type="checkbox"/> HIST 1483 American History Survey To 1877 OR HIST 1493 American History Survey Since 1877	
<input type="checkbox"/> CAP 1103 Introduction to Microsoft Office	18
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<input type="checkbox"/> MATH 2434 Calculus and Analytic Geometry III*	
<input type="checkbox"/> Life Science Elective w/Lab	
<input type="checkbox"/> HPER 1012 Wellness and Human Development	
<input type="checkbox"/> CS 2013 Programming in C++*	
<input type="checkbox"/> —3 Humanities Elective	16
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Total Credit Hours	66

* please see chart on second page
for course equivalencies



Bachelor of Science—Physics

<input type="checkbox"/> PHYS 3813 Optics	
<input type="checkbox"/> PHYS 3013 Modern Physics	
<input type="checkbox"/> PHYS 3412 Junior Physics Laboratory	
<input type="checkbox"/> MATH 4113 Differential Equations	
<input type="checkbox"/> —3 Upper Level Elective	14
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<input type="checkbox"/> PHYS 3113 Mechanics I	
<input type="checkbox"/> CHEM 1114 General Chemistry I	
<input type="checkbox"/> —2 Required Upper Level Physics Elective	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	15
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<input type="checkbox"/> PHYS 4513 Quantum Mechanics	
<input type="checkbox"/> PHYS 4113 Electricity & Magnetism - Field Theory	
<input type="checkbox"/> CHEM 1214 General Chemistry II	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	16
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<input type="checkbox"/> PHYS 3713 Thermodynamics	
<input type="checkbox"/> PHYS 4313 Introduction to Nuclear Physics	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	
<input type="checkbox"/> —3 Upper Level Elective	15
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Total Credit Hours	60



Total Credit Hours Taken: 126
Total Credit Hours Applied to BS Degree: 124

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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
MATH 2215 Calculus and Analytic Geometry I	MATH 2825 Calculus and Analytic Geometry I
MATH 2424 Calculus and Analytic Geometry II**	MATH 3025 Calculus and Analytic Geometry II
MATH 2434 Calculus and Analytic Geometry III**	MATH 3033 Calculus and Analytic Geometry III
PHYS 2114 General Physics I PHYS 2211 Calculus Based Physics I	PHYS 2115 Engineering Physics I
PHYS 2224 General Physics II PHYS 2231 Calculus Based Physics II	PHYS 2225 Engineering Physics II
CS 2013 Programming in C++	CMPSC 1113 Computer Programming I

Articulated using SSC's A.S. for Pre-Engineering.

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 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.

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.