

East Central University/Murray State College Articulation Agreement

Bachelor of Science: Physics

Catalog Year 2017-2018

Associate of Science—Chemistry (Physics)	Bachelor of Science—Physics
<input type="checkbox"/> COL 1211 Academic Success	<input type="checkbox"/> PHYS 3813 Optics
<input type="checkbox"/> ENG 1113 English Comp I	<input type="checkbox"/> PHYS 3013 Modern Physics
<input type="checkbox"/> HST 1483 U.S. History to 1865 OR HST 1493 U.S. History since 1865	<input type="checkbox"/> PHYS 4113 Electricity & Magnetism—Field Theory
<input type="checkbox"/> MTH 1513 College Algebra*	<input type="checkbox"/> MATH 3025 Calculus & Analytic Geometry II
<input type="checkbox"/> MTH 1613 Plane Trigonometry*	<input type="checkbox"/> —3 Minor or Elective 15
<input type="checkbox"/> BIO 1114 Principals of Biology 17	
<input type="checkbox"/> ENG 1213 English Comp II	<input type="checkbox"/> PHYS 3113 Mechanics I
<input type="checkbox"/> MTH 2215 Calculus I w/ Analytic Geometry*	<input type="checkbox"/> PHYS 3412 Junior Physics Laboratory
<input type="checkbox"/> BOT 1114 General Botany OR ZOO 1114 General Zoology	<input type="checkbox"/> MATH 4113 Differential Equations
<input type="checkbox"/> CS 1613 Programming I*	<input type="checkbox"/> —3 Minor or Elective
<input type="checkbox"/> HWP 1112 Personal Health 17	<input type="checkbox"/> —3 Minor or Elective
	<input type="checkbox"/> —2 Elective 15
<input type="checkbox"/> PHY 2015 Engineering Physics I*	<input type="checkbox"/> PHYS 4513 Quantum Mechanics
<input type="checkbox"/> CHM 1114 Gen Chemistry I*	<input type="checkbox"/> —2 Required Physics Elective 3000-4000 Level
<input type="checkbox"/> SPC 1113 Fundamentals of Speech	<input type="checkbox"/> MATH 3033 Calculus & Analytic Geometry III
<input type="checkbox"/> PSY 1113 Intro to Psychology OR SOC 1113 Intro to Sociology	<input type="checkbox"/> —3 Upper Level Minor or Elective
<input type="checkbox"/> —3 Cultural & Global Education 18	<input type="checkbox"/> —3 Upper Level Minor or Elective 15
	<input type="checkbox"/> PHYS 4313 Intro to Nuclear Physics
<input type="checkbox"/> PHY 2115 Engineering Physics II*	<input type="checkbox"/> PHYS 3713 Thermodynamics
<input type="checkbox"/> CHM 1214 General Chemistry II*	<input type="checkbox"/> —3 Upper Level Minor or Elective
<input type="checkbox"/> GVT 1113 American Federal Government	<input type="checkbox"/> —3 Minor or Elective
<input type="checkbox"/> —3 Cultural & Global Education 15	<input type="checkbox"/> —3 Minor or Elective 15
Total Credit Hours 67	Total Credit Hours 60

* please see chart on second page
for course equivalencies



Total Credit Hours Required for BS Degree: 127
Total Hours Completed: 128

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Course Equivalency Table

Murray State College	East Central University
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
MTH 1513 College Algebra	MATH 1513 College Algebra
MTH 1613 Plane Trigonometry	MATH 1713 Trigonometry
MTH 2215 Calculus I w/ Analytic Geometry	MATH 2825 Calculus and Analytic Geometry I
CS 1613 Programming I	CMPS 1113 Computer Programming I
PHY 2015 Engineering Physics I	PHYS 2115 Engineering Physics I
PHY 2115 Engineering Physics II	PHYS 2225 Engineering Physics II

Articulated using MSC's A. S in Chemistry (Physics).

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 MSC 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 MSC 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.