

Transfer  
with  
Ease

# Articulation Agreement

## BACHELOR OF SCIENCE: PHYSICS

### Teacher Certification Catalog Year 2022 - 2023

#### Murray State College

##### Associate of Science—Chemistry (Physics)

- BIO 1114 General Biological Science
- COL 1211 Academic Success
- ENG 1113 English Comp I
- HST 1483 U.S. History to 1865 OR HST 1493 U.S. History since 1865
- MTH 1513 Pre Calculus\*
- MTH 1613 Plane Trigonometry\* 17 hrs.
  
- BOT 1114 General Botany OR ZOO 1114 General Zoology
- CIS 1613 Programming I\*
- ENG 1213 English Comp II
- HWP 1112 Personal Health
- MTH 2215 Calculus I w/ Analytic Geo\* 17 hrs.
  
- CHM 1114 Gen Chemistry I\*
- PHY 2015 Engineering Physics I\*
- PSY 1113 Intro to Psychology
- SPC 1113 Fundamentals of Speech
- —3 hrs. Cultural & Global Education 18 hrs.
  
- CHM 1214 General Chemistry II\*
- GVT 1113 American Federal Government
- PHY 2115 Engineering Physics II\*
- —3 hrs. Cultural & Global Education 15 hrs.

**Total Credit Hours** 67 hrs.

\* Please see chart on second page for course equivalencies

#### East Central University

##### Bachelor of Science—Physics

- EDUC 2402 Survey of Exceptional Children
- EDUC 2012 Diversity in American Education
- EDUC 2211 Field Experience I
- EDUC 2631 Foundations of Educational Technology
- MATH 3025 Calculus & Analytic Geometry II PHYS 1314 Astronomy
- PSYCH 3463 Child & Adolescent Psych 18 hrs.
  
- CHEM —7 Chemistry Elective
- EDUC 3001 Field Experience II
- EDPSY 3513 Educational Psychology
- PHYS 3113 Mechanics I
- PHYS 3412 Junior Physics Laboratory
- —2 Required Physics Elective (not PHYS 3222 or PHYS 4222) 20 hrs.
  
- B/C/P 4113 Methods Teach Biological/Physical Sciences
- EDUC 4043 Strategies for Effective Teaching
- EDUC 4611 Field Experience III
- EDUC 4632 Educational Technology Integration Strategies
- PHYS 3013 Modern Physics
- PHYS 4113 Electricity & Magnetism -Field Theory
- GEOG 1214 Earth Science 19 hrs.
  
- EDUC 4262 Student Teaching Seminar I
- EDUC 4282 Student Teaching Seminar II
- EDUC 4974 Supervised Student Teaching
- EDUC 4974 Supervised Student Teaching 12 hrs.

**Total Credit Hours** 69 hrs.



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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
CS 1613 Programming I	CMPSC 1113 Computer Programming I
MTH 1513 Pre Calculus	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
PHY 1114 General Physics I	PHYS 1114 General Physics I
PHY 1214 General Physics II	PHYS 1214 General Physics II

## NOTES:

- ⇒ Articulated using MSC's A.S. for Chemistry (Physics) and without a Minor. A Minor is not required.
- ⇒ 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. 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 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.
- ⇒ A Student must earn at least 124 credit hours that apply to an ECU Bachelor's degree.