## Transfe Articulation Agreement BACHELOR OF SCIENCE: PHYSICS Catalog Year 2020 - 2021 Murray State College East Central University Associate of Science–Chemistry (Physics) **Bachelor of Science**—Physics BIO 1114 General Biological Science OR BIOL MATH 3033 Calculus & Analytic Geometry III 1404 Principles of Biology PHYS 3813 Optics COL 1211 Academic Success PHYS 3013 Modern Physics ENG 1113 English Comp I PHYS 4113 Electricity & Mag.-Field Theory HST 1483 U.S. History to 1865 OR HST 1493 • -3 hrs. Elective U.S. History since 1865 MTH 1513 Pre Calculus\* -2 hrs. Elective 17 hrs. • MTH 1613 Plane Trigonometry\* 17 hrs. CS 1113 Programming I\* CHM 1114 Gen Chemistry I\* • PHYS 3113 Mechanics I ENG 1213 English Comp II PHYS 3412 Junior Physics Laboratory HWP 1112 Personal Health -3 hrs. Elective MTH 2215 Calculus I w/ Analytic Geo\* • -3 hrs. Elective 14 hrs. 14 hrs. MATH 2315 Calculus II w/ Analytical Geo \* < MATH 4113 Differential Equations PHY 2015 Engineering Physics I\* PHYS 4513 Quantum Mechanics PSY 1113 Intro to Psychology OR SOC 1113 In-• -6 hrs. Upper Level Elective tro to Sociology -3 hrs. Upper Level Elective 15 hrs. SPC 1113 Fundamentals of Speech 16 hrs. CHM 1214 General Chemistry II PHYS 4313 Intro to Nuclear Physics • GVT 1113 American Federal Government • PHYS 3713 Thermodynamics PHY 2115 Engineering Physics II\* -9 hrs. Elective 15 hrs. -3 Cultural & Global Education 15 hrs. Total Credit Hours 61 hrs. **Total Credit Hours** 61 hrs. \* Please, see chart on second page for course equivalencies.



YOUR FUTURE - YOUR CHOICE



## **Course Equivalency Table**

Murray State College	East Central University
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 General Chemistry II	CHEM 1214 General Chemistry II
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
MATH 2315 Calculus II w/ Analytic Geometry >	MATH 3025 Calculus and Analytic Geometry II
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 Science Chemistry (Physics) and without a Minor. A Minor is not required.

- ⇒ < Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.
- ⇒ 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 by clicking on Admissions and scrolling down to Course Transfer Matrix.
- ⇒ A student must earn <u>at least 40 semester hours in upper-division</u> 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.
- $\Rightarrow$  A student must earn <u>at least 60 semester hours</u>, excluding physical activity courses, at a baccalaureate degree granting institution.
- $\Rightarrow$  A Student must earn <u>at least 124 credit hours</u> that apply to an ECU Bachelor's degree.