Transfer with Articulation Agreement **BACHELOR OF SCIENCE: PHYSICS** Catalog Year 2019–2020 East Central University Oklahoma City Community College **Bachelor of Science**—Physics Associate in Science–Physics CHEM 1115 General Chemistry I* MATH 4113 Differential Equations • PHYS 3813 Optics ENGL 1113 English Composition I PHYS 3013 Modern Physics MATH 2104 Calculus and Analytic Geometry I* PHYS 4113 Electricity & Magnetism–Field Theory -3 hrs. Gen. Ed. Humanities Elective -4 hrs. Elective 16 hrs. SCL 1001 Success in College and Life 16 hrs. CMPSC 1113 Computer Programming I PHYS 3113 Mechanics I CHEM 1215 General Chemistry II* • PHYS 3411 Junior Physics Laboratory ENGL 1213 English Composition II -3 hrs. Upper Level Elective MATH 2214 Calculus and Analytic Geometry II* 16 hrs. -6 hrs. Elective 16 hrs. PHYS 2014 Engineering Physics I* POLSC 1113 American Federal Government PHYS 4513 Quantum Mechanics • -3 hrs. Required Upper Level PHYS Elective PHYS 2114 Engineering Physics II* -3 hrs. Upper Level Elective MATH 2314 Calculus and Analytic Geometry III* -3 hrs. Upper Level Elective BIO 1124 General Biology I (Majors)* 15 hrs. -4 hrs. Elective 16 hrs. HIST 1483 U.S. History to 1877 OR HIST 1493 • U.S. History 1877 to Present PHYS 4313 Intro to Nuclear Physics CS 1143 Beginning Programming -3 hrs. Upper Level Elective -3 hrs. Upper Level Elective -3 hrs. Gen. Ed. Social Science Elective -3 hrs. Elective -3 hrs. Gen. Ed. Humanities Elective -2 hrs. Gen. Ed. Elective -4 hrs. Elective 16 hrs. 14 hrs. **Total Credit Hours Total Credit Hours** 64 hrs. 61 hrs. Students are encouraged to check 4 year degree * Please see chart on second page plan for course sequences and offerings. for course equivalencies **YOUR FUTURE - YOUR CHOICE**

Oklahoma City Community College	East Central University
BIO 1124 General Biology I (For Majors)	BIOL 1114 General Biology
CHEM 1115 General Chemistry I	CHEM 1114 General Chemistry I
CHEM 1215 General Chemistry II	CHEM 1214 General Chemistry II
ENGR 2333 Thermodynamics**	PHYS 3713 Thermodynamics
MATH 1483 Functions and Modeling	MATH 1614 College Algebra W/ Business Applications
MATH 1613 Trigonometry	Math 1713 Trigonometry
MATH 2104 Calculus and Analytic Geometry I	MATH 2825 Calculus and Analytic Geometry I
MATH 2214 Calculus and Analytic Geometry II**	MATH 3025 Calculus and Analytic Geometry II
MATH 2314 Calculus and Analytic Geometry III**	MATH 3033 Calculus and Analytic Geometry III
PHYS 2114 Engineering Physics II	PHYS 2225 Engineering Physics II
PHYS 2014 Engineering Physics I	PHYS 2115 Engineering Physics I

Course Equivalency Table

NOTES:

- \Rightarrow Articulated using OCCC's A.S. in Physics.
- ⇒ Articulated without a minor. A minor is not required, if a minor is desired, 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.
- ⇒ A student transferring with an Associate degree in Arts or Science from OCCC 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 Academics 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 OCCC 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.
- \Rightarrow A student must earn <u>at least 124 credit hours</u> that apply to an ECU Bachelor's degree.