East Central University/Seminole State College Articulation Agreement

Bachelor of Science : Physics

Medical Physics Concentration
Catalog Year 2017-2018

Associate in Science—Pre-Engineering	Bachelor of Science—Physics

Associate in Science—Pre-Engineering

- ☐ SOC 1101 Freshman Seminar
- ☐ ENG 1113 Composition I
- ☐ ENGR 1113 Intro to Engineering
- ☐ MATH 1513 Pre-Calculus*
- ☐ MATH 1613 Plane Trigonometry*
- ☐ CAP 1103 Introduction to Microsoft Office   16

- ☐ ENG 1213 Composition II
- ☐ GOV 1113 American National Government
- ☐ MATH 2215 Calculus and Analytic Geometry I*
- ☐ PHYS 2114 General Physics I*
- ☐ PHYS 2211 Calculus Based Physics I*   16

- ☐ SPCH 1143 Speech
- ☐ PHYS 2224 General Physics II*
- ☐ PHYS 2231 Calculus Based Physics II*
- ☐ MATH 2424 Calculus and Analytic Geometry II*
- ☐ HIST 1483 American History Survey To 1877 **OR** HIST 1493 American History Survey Since 1877
- ☐ —-3 Humanities Elective   18
- ☐ CHEM 1315 General Chemistry I*
- ☐ BIOL 1234 General Zoology*
- ☐ HPER 1012 Wellness and Human Development
- ☐ CS 2013 Programming in C++*
- ☐ —-3 Humanities Elective   17

Total Credit Hours   67

Bachelor of Science—Physics

- ☐ PHYS 3013 Modern Physics
- ☐ —-3 Required Upper Level Physics Elective
- ☐ CHEM 1214 General Chemistry II
- ☐ MATH 4113 Differential Equations
- ☐ —-3 Elective   16

- ☐ PHYS 3412 Junior Physics Laboratory
- ☐ BIOL 2184 Human Anatomy
- ☐ MATH 3033 Calculus & Analytic Geometry III
- ☐ MATH 3513 Mathematical Statistics
- ☐ —-3 Elective   15

- ☐ BIOL 3634 Human Physiology
- ☐ ENG 3183 Technical & Professional Writing
- ☐ —-2 Required Upper Level Physics Elective
- ☐ CHEM 3114 Organic Chemistry I
- ☐ COMM 2253 Communication in the Workplace   16

- ☐ PHYS 3713 Thermodynamics
- ☐ PHYS 4313 Introduction to Nuclear Physics
- ☐ PHYS 4222 X-Ray & Nuclear Lab
- ☐ PHYS 3222 Medical Physics
- ☐ BIOL 2113 Medical Terminology **OR** EHS 2413 Radiological Health   13

Total Credit Hours   60

Total Credit Hours Taken:	127
Total Credit Hours Applied to BS Degree:	124

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Bachelor of Science : Physics-Medical Physics

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
CHEM 1315 General Chemistry I	CHEM 1114 General Chemistry I
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
BIOL 1234 General Zoology	BIOL 1314 General Zoology

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.