

**Transfer  
with  
Ease**

# Articulation Agreement

## BACHELOR OF SCIENCE: PHYSICS

**Catalog Year 2018 - 2019**

### Seminole State College

### East Central University

#### Associate in Science—Pre-Engineering

#### Bachelor of Science—Physics

- ENG 1113 Composition I
- ENGR 1113 Intro to Engineering
- MATH 1513 Pre-Calculus\*
- MATH 1613 Plane Trigonometry\*
- STSC 1002 Learning Strategies
- —3 hrs. Humanities Elective 17 hrs.
  
- 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 hrs.
  
- CAP 1103 Introduction to Microsoft Office
- HIST 1483 American History To 1877 OR
- HIST 1493 American History Since 1877
- MATH 2424 Calculus and Analytic Geometry II \* <
- PHYS 2224 General Physics II\*
- PHYS 2231 Calculus Based Physics II\*
- SPCH 1143 Speech 18 hrs.
  
- CS 2013 Programming in C++\*
- HPER 1012 Wellness and Human Development
- MATH 2434 Calculus and Analytic Geometry III \* <
- —4 hrs. Life Science Elective w/Lab
- —3 hrs. Humanities Elective 16 hrs.

- MATH 4113 Differential Equations
- PHYS 3013 Modern Physics
- PHYS 3412 Junior Physics Laboratory
- PHYS 3813 Optics
- —3 hrs. Upper Level Elective 14 hrs.
  
- CHEM 1114 General Chemistry I
- PHYS 3113 Mechanics I
- —2 hrs. Required Upper Level Physics Elective
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective 15 hrs.
  
- CHEM 1214 General Chemistry II
- PHYS 4513 Quantum Mechanics
- PHYS 4113 Electricity & Magnetism - Field Theory
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective 16 hrs.
  
- PHYS 3713 Thermodynamics
- PHYS 4313 Introduction to Nuclear Physics
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective
- —3 hrs. Upper Level Elective 15 hrs.

**Total Credit Hours** 67 hrs.

**Total Credit Hours** 60 hrs.

\* Please, see chart on second page  
for course equivalencies



**YOUR FUTURE - YOUR CHOICE**



# Course Equivalency Table

Seminole State College	East Central University
CS 2013 Programming in C++	CMPSC 1113 Computer Programming I
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
MATH 2434 Calculus and Analytic Geometry III <	MATH 3033 Calculus and Analytic Geometry III
PHYS 2114 General Physics I PHYS 2211 Calculus Based Physics II	PHYS 2115 Engineering Physics I
PHYS 2224 General Physics II PHYS 2231 Calculus Based Physics II	PHYS 2225 Engineering Physics II

< Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.

**NOTES:**

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