

East Central University
CHS - Physics BS (0350/UG23)
(2023-2024) Degree Plan

FIRST YEAR

Fall Semester

*UNIV 1001 Freshman Seminar
 *ENG 1113 Freshman Composition I
 *MATH 1513 College Algebra
 MATH 1713 Trigonometry
 *KIN 2122 Choices in Wellness OR KIN 2183
 Basic Nutrition
 *HIST 2483 United States History to 1877 OR
 *HIST 2493 United States history since 1877
15-16 TOTAL HOURS

Spring Semester

*ENG 1213 Freshman Composition II or HNRS 2513 Enduring
 Questions: Perspectives from Rhetoric and Research (Honors
 *PS 1113 United States Government
 MATH 2825 Calculus & Analytic Geometry I
 *CHEM 1114 General Chemistry I

15 TOTAL HOURS

SECOND YEAR

Fall Semester

CHEM 1214 General Chemistry II
 MATH 3025 Calculus & Analytic Geometry II
 *HYS 2115 Engineering Physics I or *PHYS 1114 General Physics
 *COMM 1113 Fundamentals of Human Communication

16-17 TOTAL HOURS

Spring Semester

PHYS 2225 Engineering Physics II or PHYS
 1214 General Physics II
 *GEOG 2513 World Regional Geography or other in
 Group 7
 MATH 3033 Calculus & Analytic Geometry III
 *CMPSC 1113 Computer Programming I
 3 hrs any elective

16-17 TOTAL HOURS

THIRD YEAR

Fall Semester

MATH 4113 Differential Equations
 PHYS 4113 Electricity & Magnetism - Field Theory
 PHYS 3013 Modern Physics
 3 hrs of Category 6: Cultural & Aesthetic Awareness
 *3 hours any Gen Ed

15 TOTAL HOURS

Spring Semester

PHYS 3813 Optics
 PHYS 3113 Mechanics I
 PHYS 3412 Junior Physics Laboratory
 *3 hrs gen ed elective hours
 *ENG 3183 Technical and Professional Writing

14 TOTAL HOURS

FOURTH YEAR

Fall Semester

PHYS 4513 Quantum Mechanics
 *BIOL 1114 General Biology
 6 hrs electives

13 TOTAL HOURS

Spring Semester

PHYS 4313 Intro to Nuclear Physics
 PHYS 3713 Thermodynamics
 3 hrs of Category 6: Cultural & Aesthetic Awareness
 4 hrs electives

13 TOTAL HOURS

* = General Education