

East Central University
CHS -Medical Physics BS (0353/UG23)
(2023-2024) Degree Plan

FIRST YEAR

Fall Semester

*UNIV 1001 Tiger Connect
 *ENG 1113 Freshman Composition I
 *MATH 1513 College Algebra
 MATH 1713 Trigonometry
 *Gen Ed Elective
 *HIST 2483 United States History to 1877 OR
 *HIST 2493 United States history since 1877

16 TOTAL HOURS

Spring Semester

*ENG 1213 Freshman Composition II or HNRS 2513 Enduring
 Questions: Perspectives from Rhetoric and Research (Honors only)
 *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
 PHYS 2115 Engineering Physics I
 *BIOL 1314 General Zoology

18 TOTAL HOURS

Spring Semester

PHYS 2225 Engineering Physics II
 *BIOL 1114 General Biology
 MATH 3033 Calculus & Analytic Geometry III
 *CMPSC 1113 Computer Programming I

15 TOTAL HOURS

THIRD YEAR

Fall Semester

MATH 4113 Differential Equations

 3 hrs required physics elective
 PHYS 3013 Modern Physics
 *3 hrs Cultural & Aesthetic Awareness (Global Citizenship)
 BIOL 2184 Human Anatomy

16 TOTAL HOURS

Spring Semester

MATH 3513 Mathematical Statistics or MATH 3583
 Applied Statistics or SOC 3833 Statistics for Social
 Science
 *COMM 1113 Fundamentals of Human Communication
 PHYS 3412 Junior Physics Laboratory
 EHS 2413 Radiologic Health OR BIOL 2113 Medical
 Terminology
 PHYS 3222 Medical Physics

13 TOTAL HOURS

FOURTH YEAR

Fall Semester

BIOL 3634 Human Physiology

 2 hrs physics 3-4000 level elective
 *Gen Ed Elective (ENG 3183 Technical and Professional Writing
 recommended)
 CHEM 3114 Organic Chemistry I

13 TOTAL HOURS

Spring Semester

PHYS 4313 Intro to Nuclear Physics
 PHYS 3713 Thermodynamics
 3 hrs Cultural & Aesthetic Awareness (Intercultural Knowledge and
 Competence)

 Elective 3 hrs
 PHYS 4222 X-ray & Nuclear Lab

14 TOTAL HOURS

* = General Education

Total hours: 120