

**East Central University**  
**CHS -Medical Physics BS (0353/UG24)**  
**(2024-2025) Degree Plan**

FIRST YEAR	
<b>Fall Semester</b>	<b>Spring Semester</b>
*UNIV 1001 Tiger Connect	*ENG 1213 Freshman Composition II
*ENG 1113 Freshman Composition I	*PS 1113 United States Government
*MATH 1513 College Algebra	MATH 2825 Calculus & Analytic Geometry I
MATH 1713 Trigonometry	*CHEM 1114 General Chemistry I
*Gen-Ed Elective	
*HIST 2483 United States History to 1877 OR	
*HIST 2493 United States history since 1877	
<b>16 TOTAL HOURS</b>	<b>15 TOTAL HOURS</b>
SECOND YEAR	
<b>Fall Semester</b>	<b>Spring Semester</b>
CHEM 1214 General Chemistry II	PHYS 2225 Engineering Physics II
MATH 3025 Calculus & Analytic Geometry II	*BIOL 1114 General Biology
PHYS 2115 Engineering Physics I	MATH 3033 Calculus & Analytic Geometry III
*BIOL 1314 General Zoology	*CMPSC 1113 Computer Programming I
<b>18 TOTAL HOURS</b>	<b>15 TOTAL HOURS</b>
THIRD YEAR	
<b>Fall Semester</b>	<b>Spring Semester</b>
MATH 4113 Differential Equations	MATH 3513 Mathematical Statistics or
	MATH 3583 Applied Statistics or
	SOC 3833 Statistics for Social Science
Physics Elective (3 hours)	General Education Elective (*COMM 1113 Fundamentals of Human Communication recommended)
PHYS 3013 Modern Physics	PHYS 3412 Junior Physics Laboratory
*3 hrs Cultural & Aesthetic Awareness (Global Citizenship)	EHS 2413 Radiologic Health OR BIOL 2113 Medical Terminology
BIOL 2184 Human Anatomy	PHYS 3222 Medical Physics
<b>16 TOTAL HOURS</b>	<b>13 TOTAL HOURS</b>
FOURTH YEAR	
<b>Fall Semester</b>	<b>Spring Semester</b>
BIOL 3634 Human Physiology	PHYS 4313 Intro to Nuclear Physics
PHYS 3713 Thermodynamics	PHYS 3713 Thermodynamics
Physics 3-4000 level elective (2 hours)	Cultural & Aesthetic Awareness (Intercultural Knowledge and Competence-3 hours)
*General Education Elective (ENG 3183 Technical and Professional Writing recommended)	Minor or Electives (3 hours)
	*General Education Elective (ENG 3183 Technical and Professional Writing recommended)
CHEM 3114 Organic Chemistry I	PHYS 4222 X-ray & Nuclear Lab
<b>13 TOTAL HOURS</b>	<b>14 TOTAL HOURS</b>

\* = General Education

Total hours: 120