

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

**FIRST YEAR**

Fall Semester	Spring 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 <b>16 TOTAL HOURS</b>	*ENG 1213 Freshman Composition II *PS 1113 United States Government MATH 2825 Calculus & Analytic Geometry I *CHEM 1114 General Chemistry I  <b>15 TOTAL HOURS</b>

**SECOND YEAR**

Fall Semester	Spring Semester
CHEM 1214 General Chemistry II MATH 3025 Calculus & Analytic Geometry II PHYS 2115 Engineering Physics I *BIOL 1314 General Zoology  <b>18 TOTAL HOURS</b>	PHYS 2225 Engineering Physics II *BIOL 1114 General Biology MATH 3033 Calculus & Analytic Geometry III *CMPSC 1113 Computer Programming I  <b>15 TOTAL HOURS</b>

**THIRD YEAR**

Fall Semester	Spring Semester
MATH 4113 Differential Equations  Physics Elective (3 hours) PHYS 3013 Modern Physics *3 hrs Cultural & Aesthetic Awareness (Global Citizenship) BIOL 2184 Human Anatomy  <b>16 TOTAL HOURS</b>	MATH 3513 Mathematical Statistics or MATH 3583 Applied Statistics or SOC 3833 Statistics for Social Science General Education Elective (*COMM 1113 Fundamentals of Human Communication recommended) PHYS 3412 Junior Physics Laboratory EHS 2413 Radiologic Health OR BIOL 2113 Medical Terminology PHYS 3222 Medical Physics  <b>13 TOTAL HOURS</b>

**FOURTH YEAR**

Fall Semester	Spring Semester
BIOL 3634 Human Physiology PHYS 3713 Thermodynamics  Physics 3-4000 level elective (2 hours) *General Education Elective (ENG 3183 Technical and Professional Writing recommended)  CHEM 3114 Organic Chemistry I <b>13 TOTAL HOURS</b>	PHYS 4313 Intro to Nuclear Physics PHYS 3713 Thermodynamics Cultural & Aesthetic Awareness (Intercultural Knowledge and Competence-3 hours)  Minor or Electives (3 hours) *General Education Elective (ENG 3183 Technical and Professional Writing recommended) PHYS 4222 X-ray & Nuclear Lab  <b>14 TOTAL HOURS</b>

\* = General Education Total hours: 120