

**East Central University**  
**CHS - Physics BS (0350/UG24)**  
**(2024-2025) Degree Plan**

<b>FIRST YEAR</b>		
<b>Fall Semester</b> *UNIV 1001 Tiger Connect *ENG 1113 Freshman Composition I *MATH 1513 College Algebra MATH 1713 Trigonometry  <b>General Education Elective (2-3 hours)</b> *HIST 2483 United States History to 1877 OR *HIST 2493 United States history since 1877 <b>15-16 TOTAL HOURS</b>	<b>Spring Semester</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>	
<b>SECOND YEAR</b>		
<b>Fall Semester</b>  CHEM 1214 General Chemistry II  MATH 3025 Calculus & Analytic Geometry II PHYS 2115 Engineering Physics I or *PHYS 1114 General Physics <b>General Education Elective (*COMM 1113 Fundamen</b>	<b>Spring Semester</b> PHYS 2225 Engineering Physics II or PHYS 1214 General Physics II  <b>General Education Elective (3 hours)</b> MATH 3033 Calculus & Analytic Geometry III *CMPSC 1113 Computer Programming I  <b>Minor or Electives (3 hours)</b>	
<b>16-17 TOTAL HOURS</b>	<b>16-17 TOTAL HOURS</b>	<b>34</b>
<b>THIRD YEAR</b>		
<b>Fall Semester</b> MATH 4113 Differential Equations PHYS 4113 Electricity & Magnetism - Field Theory PHYS 3013 Modern Physics <b>Aesthetic Awareness (Intercultural Knowledge and C</b> <b>General Education Elective (3 hours)</b>	<b>Spring Semester</b> PHYS 3813 Optics PHYS 3113 Mechanics I PHYS 3412 Junior Physics Laboratory <b>General Education Elective (4 hours)</b> <b>Elective (*ENG 3183 Technical and Professional Writ</b>	
<b>15 TOTAL HOURS</b>	<b>15 TOTAL HOURS</b>	<b>29</b>
<b>FOURTH YEAR</b>		
<b>Fall Semester</b> <b>PHYS 4513 Quantum Mechanics</b>  *BIOL 1114 General Biology  Minor or Electives (6 hours)  PHYS 3713 Thermodynamics	<b>Spring Semester</b> PHYS 4313 Intro to Nuclear Physics  <b>PHYS 3713 Thermodynamics</b> tural & Aesthetic Awareness (Global Citizenship-3 hou  Minor or Electives (4 hours) PHYS 4513 Quantum Mechanics	
<b>13 TOTAL HOURS</b>	<b>13 TOTAL HOURS</b>	<b>26</b>
<b>* = General Education</b>		<b>120</b>