

East Central University  
Physics - B.S.  
0350/UG24

Student Name: _____	Student ID # _____
30 hours at ECU completed _____	Advisor: _____
60 hours at Sr college completed _____	
40 hours upper level completed _____	OSRHE Computer Proficiency Requirement met _____

Requirements	Hours	Hours
<i>Courses highlighted in blue are general education courses.</i>		
<b>I. General Education</b>	<b>40</b>	<b>III. Related Work</b> <b>27-33</b>
<i>A maximum of twelve hours may be applied to both the major/related work and general education.</i>		
<b>II. Major in Physics</b>	<b>35</b>	
A. Required in the Physics Core	15	CHEM 1114 General Chemistry I
PHYS 2115 Engineering Physics I		CHEM 1214 General Chemistry II
PHYS 2225 Engineering Physics II		CMPSC 1113 Computer Programming I
PHYS 3013 Modern Physics		MATH 1513 College Algebra †
PHYS 3412 Junior Physics Laboratory		MATH 1713 Trigonometry †
B. Required in the Physics Major	18	MATH 2825 Calculus & Analytic Geometry I
PHYS 3113 Mechanics I		MATH 3025 Calculus & Analytic Geometry II
PHYS 3713 Thermodynamics		MATH 3033 Calculus & Analytic Geometry III
PHYS 3813 Optics		MATH 4113 Differential Equations
PHYS 4113 Electricity & Magnetism-Field Theory		
PHYS 4313 Introduction to Nuclear Physics		
PHYS 4513 Quantum Mechanics		
<b>IV. Minor (Not Required)</b>		
<b>V. Electives</b>		<b>22-28</b>
<i>An elective course is any college-level course not required by the degree that is utilized to reach the 120 credit hours required for degree completion. Elective courses are chosen according to the interest of the student and can be used in completion of a minor, certificate, or additional major.</i>		
<b>VI. Total Hours Required</b>		<b>120</b>
<b>VII. Special Requirements</b>		

† With department approval, students may omit MATH 1513 and/or MATH 1713 and begin with MATH 2825

“Teachers” or “methods” courses do not count in the major.