

East Central University

Physics - B.S.

0350/UG22

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>		
I. General Education	40	III. Related Work
<i>A maximum of twelve hours may be applied to both the major/related work and general education.</i>		
II. Major in Physics	35	
A. Required in the Physics Core	15	
PHYS 2115 Engineering Physics I		CHEM 1114 General Chemistry I
PHYS 2225 Engineering Physics II		CHEM 1214 General Chemistry II
PHYS 3013 Modern Physics		CMPS 1113 Computer Programming I
PHYS 3412 Junior Physics Laboratory		MATH 1513 College Algebra †
		MATH 1713 Trigonometry †
		MATH 2825 Calculus & Analytic Geometry I
		MATH 3025 Calculus & Analytic Geometry II
		MATH 3033 Calculus & Analytic Geometry III
		MATH 4113 Differential Equations
B. Required in the Physics Major	18	
PHYS 3113 Mechanics I		
PHYS 3713 Thermodynamics		
PHYS 3813 Optics		
PHYS 4113 Electricity & Magnetism-Field Theory		
PHYS 4313 Introduction to Nuclear Physics		
PHYS 4513 Quantum Mechanics		
C. Required Electives	2	
Two hours Physics electives (3xxx-4xxx)		
		IV. Minor (Not Required)
		V. Electives
		22-28
		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.
		VI. Total Hours Required
		120
		VII. Special Requirements

† 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.