

East Central University
Physics -Medical Physics Concentration B.S.
0353/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>		
I. General Education	40	
<i>A maximum of twelve hours may be applied to both the major/related work and general education.</i>		
II. Major in Physics	30	
A. Required in the Physics Core	15	
PHYS 2115 Engineering Physics I		CMPSC 1113 Computer Programming I
PHYS 2225 Engineering Physics II		COMM 1113 Fundamentals of Human Communication
PHYS 3013 Modern Physics		MATH 1513 College Algebra †
PHYS 3412 Junior Physics Laboratory		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
		Select one of the following:
B. Requiredfor Concentration in Medical Physics	15	BIOL 2113 Medical Terminology
PHYS 3222 Medical Physics		EHS 2413 Radiologic Health
PHYS 3713 Thermodynamics		Select one of the following:
PHYS 4222 Xray & Nuclear Physics Lab		MATH 3513 Mathematical Statistics
PHYS 4313 Introduction to Nuclear Physics		MATH 3583 Applied Statistics
Five hours Physics electives (3000-4000 level)		SOC 3833 Statistics for the Social Sciences
III. Related Work	52-61	
BIOL 1114 General Biology		IV. Minor (Not Required)
BIOL 2184 Human Anatomy		Hours
BIOL 3634 Human Physiology		
CHEM 1114 General Chemistry I		V. Electives
		0-10

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

CHEM 1214 General Chemistry II
CHEM 3114 Organic Chemistry I

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.