

East Central University  
 Physics -Medical Physics Concentration B.S.  
 0353/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 <input type="checkbox"/>

Requirements	Hours	Hours
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*Courses highlighted in blue are general education courses.*

<b>I. General Education</b>		<b>40</b>
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*A maximum of twelve hours may be applied to both the major/related work and general education.*

<b>II. Major in Physics</b>		<b>30</b>
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A. Required in the Physics Core		15
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- PHYS 2115 Engineering Physics I
- PHYS 2225 Engineering Physics II
- PHYS 3013 Modern Physics
- PHYS 3412 Junior Physics Laboratory

B. Required for Concentration in Medical Physics		15
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- PHYS 3222 Medical Physics
- PHYS 3713 Thermodynamics
- PHYS 4222 Xray & Nuclear Physics Lab
- PHYS 4313 Introduction to Nuclear Physics
- Five hours Physics electives (3000-4000 level)

<b>III. Related Work</b>		<b>52-58</b>
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- BIOL 1114 General Biology
- BIOL 2184 Human Anatomy
- BIOL 3634 Human Physiology
- CHEM 1114 General Chemistry I
- CHEM 1214 General Chemistry II
- CHEM 3114 Organic Chemistry I

- CMPS 1113 Computer Programming I
- COMM 1113 Fundamentals of Human Communication
- 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

Select one of the following:

- BIOL 2113 Medical Terminology
- EHS 2413 Radiologic Health

Select one of the following:

- MATH 3513 Mathematical Statistics
- MATH 3583 Applied Statistics
- SOC 3833 Statistics for the Social Sciences

<b>IV. Minor (Not Required)</b>		Hours
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<b>V. Electives</b>		<b>0-10</b>
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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.

<b>VI. Total Hours Required</b>		<b>120</b>
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<b>VII. Special Requirements</b>		
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† 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.