

Medical Physics Major – updated 8/15

<p>Graduate School/Career Options: (work with advisor to choose appropriate coursework)</p> <ul style="list-style-type: none"> • Medical School, Physical Therapy School, Dental School, Vet School, Optometry School • Graduate Programs in Biomedical Sciences, Bioimaging, Biomechanics, Rehabilitation Science • Medical Physics Graduate School, Radiology • Biomedical Engineering Graduate Program • Physician’s Assistant Masters in Science • Masters in Prosthetics and Orthotics
<p>Physics and Mathematics Prerequisites:</p> <ul style="list-style-type: none"> • Two semesters of Introductory Physics: <ul style="list-style-type: none"> ○ PH 2800/2810 <u>or</u> PH 2850/2860 (4) ○ PH 2900/2910 <u>or</u> PH 2940/2920 (4) ○ <u>OR</u> (with instructor’s approval) PH 1700/1710 & PH 1750/1760 (8) • MT 1800 Calculus I (4)
<p>Required Upper Division Courses for Medical Physics Track:</p> <ul style="list-style-type: none"> • Physics of the Body I (3) PH 3200 <u>or</u> PH 3500 Statics (3) • Physics of the Body II (3) PH 3210 • Physics of Medical Imaging (3) PH 3240 • Optics (3) PH 4400 • Statistics of the Health Sciences (3) PH 4900 <u>OR</u> Probability & Statistics I (3) MT 3400 • Modern Physics (3) PH 4500 • Capstone - Research in Physics of Medicine (1) PH 4940
<p>Additional Required Courses : (choose <u>minimum</u> of three credit hours from list below - work with advisor to choose appropriate pre-requisites and additional coursework for graduate school requirements)</p> <ul style="list-style-type: none"> • Statics (3) PH 3500 • Dynamics (3) PH 4100 • Electric Circuits (3) PH 4000 • Physical Chemistry I (3) PH/CH 3510 <u>or</u> Physical Chemistry II (3) PH/CH 3530 • Thermodynamics (3) PH 3400 • Mathematical Modeling (3) MT 3260
<p>Additional Courses Required for the Medical Physics Track:</p> <ul style="list-style-type: none"> • Calculus II (4) MT 1810 • Differential Equations (3) MT 3700 & Linear Algebra (3) MT 3810 <u>or</u> Mathematical Methods in Physics (3) PH 3710
<p>Total Upper Division Hours Required: 25 – 28 hours (depending on needed math courses)</p> <p>Per university requirements, students must choose additional upper division coursework to complete the major requirement of 30 hours of upper division coursework. Students are advised to work with advisor to choose these hours to complete coursework necessary for desired career goals/graduate school entrance requirements.</p>

Other Requirements: A grade of "C" or better is required in each upper division course of this major. A grade of "C-" will not fulfill the requirement. A grade of "C" or better is required in composition and other writing courses.

FOR MORE INFORMATION:

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