

Physics of Medicine Pre-Professional Major Track – 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 • 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 2850/2850 (4) ○ PH 2900/2910 <u>or</u> PH 2940/2920 (4) ○ <u>OR</u> PH 1700/1710 & PH 1750/1760 (8) • MT 1800 Calculus I (4) – pre-requisite or concurrent with PH 3210, PH 3260, PH 4900 & PH 4940; pre-requisite for MT 3260
<p>Required Upper Division Courses for Physics of Medicine Pre-Professional Track:</p> <ul style="list-style-type: none"> • Physics of the Body I (3) PH 3200 • Physics of the Body II (3) PH 3210 • Physics of Medical Imaging (3) PH 3240 • Optics (3) PH 4400 <u>or</u> Modern Physics (3) PH 4500 • Statistics of the Health Sciences (3) PH 4900 <u>or</u> Mathematical Modeling (3) MT 3260 • Capstone - Research in Physics of Medicine (1) PH 4940
<p>Additional Required Courses : choose <u>minimum</u> of 9 credit hours from list below:</p> <ul style="list-style-type: none"> • <i>Exercise Science:</i> Motor Behavior EXS 4200, Kinesiology Concepts/Lab EXS 3300/3301, Exercise, Health and Chronic Disease Prevention EXS 4310, Physiology of Exercise/Lab EXS 3500/3501, Psychosocial Aspects of Exercise and Sport EXS 3700 • <i>Biology/Chemistry:</i> General Biochemistry I CH 3310, General Physiology BL 3700/3701, Advanced Human Anatomy BL 3440/3441, Microbiology/Lab BL 3100/3101, Cell Biology/Lab BL3620/3621, Genetics/Lab BL 3610/3611 • <i>Spanish:</i> Medical Spanish II SP3070 • <i>Psychology:</i> Health Psychology PY 3700, Behavioral Neuroscience PY 3300, Cognitive Neuropsychology PY 4890, Developmental Psychology PY 3400 • <i>Sociology:</i> Medical Sociology SO 3650, Sociology of Death and Dying SO 3670, Bioethics and Society SO 3690 • <i>Philosophy:</i> Medical Ethics PL 4700, Philosophy of Death or Dying PL 3300 • <i>Health Professions:</i> Perspectives in Global Health HP 3500, Global Perspectives on Disability HP 3700 • <i>Communication:</i> CT 3070 Health Communication
<p>Total Upper Division Hours Required: 16 hours physics and 9 hours from list above = 25 hrs.</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>

Additional Lower Division Requirements: Students should work with their advisor to choose the proper pre-requisites for their chosen *Additional Required Courses* for the POM Pre-Professional Major Track and their post-graduate program. This list will alter depending on your course/program choices, but some **typical** lower division pre-requisites would be:

- BL 1250/1251 General Biology I & Lab
- BL 1300/1301 General Biology II & Lab
- CH 2610 General Chemistry I & Lab
- CH 2630 General Chemistry II & Lab
- PY 1000 Introduction to Psychology (core)
- PL 1100 Reality and Human Existence (core)
- MT 1190 Pre-Calculus
- MT 1810 (if you choose to take Modern Physics PH 4500)

FOR MORE INFORMATION:

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