

PROGRAM NAME: Biomedical Physics - Physics of Medicine
 PROGRAM COLLEGE: College of Health and Human Services
 CATALOG TERM: 2019-2020

The Physics of Medicine pre-professional major track is interdisciplinary in nature and is designed for students that wish to attend clinical graduate school programs in medicine or healthcare. Physics of Medicine students experience a unique hands-on curriculum that focuses on deep conceptual understanding of physics as it applies to other sciences, medicine and healthcare. Our graduates leave Rockhurst with strong communication and critical thinking skills that enable them to integrate their scientific understanding with their desired career path. This interdisciplinary major easily lends itself to allowing students to complete double majors in areas of your choice (e.g. Biology, Exercise Science, Spanish, Philosophy, etc.)

NOTE: Individual Programs of Study will vary in consultation with your Advisor and course/section availability each term. The below schedule serves only as an **example** four year degree plan.

YEAR 1

Fall Semester

Course Name	Credits	Minimum Grade Required	Experience Notes
Core: Written Communication (WCP)	3		<ul style="list-style-type: none"> Join an RU Academy Participate in the Finucane Service Project Attend the New Student Retreat
Core: Mathematics (Pre-calculus or Calculus I)	3 - 4		
BL 1250 General Biology I with BL 1251 Lab	4	C	
CH 2610 General Chemistry I with CH 2620 Lab (or PH 2700/2710 Physics for the Life Sciences if pre-PT)	4	C	
NS 1000 Freshman in Science	1		
TOTAL HOURS	15 - 16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Oral Communication	3		<ul style="list-style-type: none"> Join a campus club/organization (can be dept. specific)
PY 1000 Introduction to Psychology	3		
Core: Theological Mode Lv I	3		
BL 1300 General Biology II with BL 1301 Lab II	4		
CH 2630 General Chemistry II with CH 2640 Lab II (or PH 2750/2760 Physics for the Life Sciences if pre-PT)	4		
TOTAL HOURS	17		

YEAR 2

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Philosophical Mode Lv II	3		
PH 2700 Physics for the Life Sciences I with PH 2710 Lab I (or CH 2610/2620 if pre-PT)	4		
MT 1800 Calculus I (if already taken, choose elective)	3	C	
Elective – discuss with your advisor to complete requirements for pre-professional program (i.e. medical school, PT school, etc.). Some courses you'll need to consider are: CH 2710/2720 Organic Chemistry I (required for pre-med) or BL 3030/3031 Human Anatomy & Physiology I (required for pre-PT).	4 -8		
TOTAL HOURS	14 – 18 (depending on pre-professional requirements)		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Literary Mode Lv I	3		
Core: Artistic Mode	3		
PH 2750 Physics of the Life Sciences II with PH 2760 Lab II (or CH 2630/2640 if pre-PT)	4		
Elective – discuss with your advisor to complete requirements for pre-professional program (i.e. medical school, PT school, etc.). Some courses you'll need to consider are: CH 2730/2740 Organic Chemistry I (required for pre-med) or BL 3040/3041 Human Anatomy & Physiology II (required for pre-PT).	4		
Core: Historical Mode Lv I	3		
TOTAL HOURS	17		

YEAR 3

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
PH 3200 Physics of the Body I (odd fall) or PH 3240 Physics of Medical Imaging (even fall)	3		
Core: Philosophical Mode Lv I	3		
PH 4900 Statistics of the Health Sciences	3		
Physics of Medicine Elective (discuss interdisciplinary options with advisor); Pre-medical students need to take CH 3620 Biochemistry I	3		

Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
TOTAL HOURS	15		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Philosophical Mode Lv II	3		
Core: Scientific-Relational Mode Lv II	3		
PH 3210 Physics of the Body II (even spring) or PH 4400 (odd spring)	3		
Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
TOTAL HOURS	15		

YEAR 4

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Theological Mode Lv II	3		
Core: Global Perspectives	3		
PH 3200 Physics of the Body I (odd fall) or PH 3240 Physics of Medical Imaging (even fall)	3		
Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
Core: Historical Mode or Literary Mode Lv II	3		
TOTAL HOURS	15		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Philosophical Mode or Theological Mode Lv II	3		
PH 3210 Physics of the Body II (even spring) or PH 4400 (odd spring)	3		
PH 4940 Research Capstone	1		
Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
Physics of Medicine Elective (discuss interdisciplinary options with advisor)	3		
TOTAL HOURS	16		

Credit Hours

- Core: 51 - 54
- Major: 25
- Electives: 49 – 52 (Elective hours may be used for second majors, minors, or professional/graduate pre-requisites (i.e. Medical School requirements, Physical Therapy requirements, etc.)

TOTAL Credit Hours: 128