

PHYSICS MAJOR, HEALTH STUDIES TRACK

Requirements

The Health Studies track is designed for students with an interest in pursuing a career in the health sciences, including medical, PA, dental, or veterinary schools. Students in this track will generally also want to investigate the Health Studies program.

Code	Title	Credits
MATH 2217 or PHYS 3324	Statistics I Math Methods in Physics Math Methods in Physics	3
PHYS 3222	Modern Optics	3
CHEM 2271 & 2271L	Organic Chemistry I and Organic Chemistry I Lab	4
CHEM 2272 & 2272L	Organic Chemistry II and Organic Chemistry II Lab	4
CHEM 3361 & 3361L	Physical Chemistry I and Physical Chemistry I Lab	4
Total Credits		18

Plan of Study

Course	Title	Credits
First Year		
Fall		
CHEM 1171	General Chemistry I	3
CHEM 1171L	General Chemistry I Lab	1
MATH 1141	Calculus I for Chemistry, Engineering, and Physics Majors	4
PHYS 1171	General Physics I	3
PHYS 1171L	General Physics I Lab	1
Core Curriculum		6
Credits		18
Spring		
CHEM 1172	General Chemistry II	3
CHEM 1172L	General Chemistry II Lab	1
MATH 1142	Calculus II for Chemistry, Engineering, and Physics Majors	4
PHYS 1172	General Physics II	3
PHYS 1172L	General Physics II Lab	1
Core Curriculum		6
Credits		18
Second Year		
Fall		
CHEM 2271	Organic Chemistry I	3
CHEM 2271L	Organic Chemistry I Lab	1
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
PHYS 2285	Modern Physics	3

Core Curriculum	3
Free Elective	3
Credits	17

Spring

CHEM 2272	Organic Chemistry II	3
CHEM 2272L	Organic Chemistry II Lab	1
MATH 2251	Ordinary Differential Equations	3
PHYS 2226	Classical Mechanics	3
PHYS 2285L	Modern Experimental Methods Lab	2
Free elective		3
Credits		15

Third Year

Fall

PHYS 3241	Thermal and Statistical Physics	3
PHYS 3271	Electricity and Magnetism	3
Core Curriculum		6
Free Elective		3
Credits		15

Spring

MATH 2217 or PHYS 3324	Statistics I or Math Methods in Physics Math Methods in Physics	3
PHYS 3215	Computational Physics	3
PHYS 3222	Modern Optics	3
Core Curriculum		6
Credits		15

Fourth Year

Fall

CHEM 3361	Physical Chemistry I	3
CHEM 3361L	Physical Chemistry I Lab	1
PHYS 4998	Theoretical/Experimental Capstone	2
Core Curriculum		3
Free Elective		6
Credits		15

Spring

PHYS 4999	Theoretical/Experimental Capstone	2
Physics Elective		3
Core Curriculum		3
Free Elective		6
Credits		14
Total Credits		127