

PHYSICS MAJOR, GENERAL PHYSICS TRACK

Requirements

The General Physics track is a traditional physics major which provides students with the background needed to pursue advanced degrees in the physical sciences or jobs in science, engineering, or a host of other careers that require strong quantitative skills.

Students on the General Physics Track must complete the following classes:

Code	Title	Credits
MATH 3332 or PHYS 3324	Partial Differential Equations Math Methods in Physics Math Methods in Physics	3
PHYS 3385L	Advanced Lab in Physics	3
PHYS 3386	Quantum Physics	3
Physics Electives		6
Total Credits		15

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		
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
PHYS 2285	Modern Physics	3
Core Curriculum		6
Free Elective		3
Credits		16

Spring

MATH 2251	Ordinary Differential Equations	3
PHYS 2226	Classical Mechanics	3
PHYS 2285L	Modern Experimental Methods Lab	2
PHYS 3324	Math Methods in Physics Math Methods in Physics	3
Core Curriculum		3
Credits		14

Third Year

Fall

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

Spring

PHYS 3215	Computational Physics	3
PHYS 3385L	Advanced Lab in Physics	3
Physics Elective		3
Core Curriculum		6
Credits		15

Fourth Year

Fall

PHYS 3386	Quantum Physics	3
PHYS 4998	Theoretical/Experimental Capstone	2
Core Curriculum		3
Free Elective		6
Credits		14

Spring

PHYS 4999	Theoretical/Experimental Capstone	2
Free Elective		9
Physics Elective		3
Credits		14
Total Credits		124