PHYSICS MAJOR, FOUNDATION CLASSES

Requirements

For a major in physics, all students complete the following courses, regardless of which track they select:

Code	Title	Credits
CHEM 1171 & 1171L	General Chemistry I and General Chemistry I Lab	4
CHEM 1172 & 1172L	General Chemistry II and General Chemistry II Lab	4
MATH 1141	Calculus I for Chemistry, Engineering, and Physics Majors	4
MATH 1142	Calculus II for Chemistry, Engineering, and Physics Majors	4
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
MATH 2251	Ordinary Differential Equations	3
PHYS 1171 & 1171L	General Physics I and General Physics I Lab	4
PHYS 1172 & 1172L	General Physics II and General Physics II Lab	4
PHYS 2226	Classical Mechanics	3
PHYS 2285	Modern Physics	3
PHYS 2285L	Modern Experimental Methods Lab	2
PHYS 3215	Computational Physics	3
PHYS 3241	Thermal and Statistical Physics	3
PHYS 3271	Electricity and Magnetism	3
PHYS 4998 & PHYS 4999	Theoretical/Experimental Capstone and Theoretical/Experimental Capstone	4
Physics Elective		3
Total Credits		**55**

While not normally taken by physics majors, MATH 1171, MATH 1172, and MATH 2273 will also satisfy their corresponding MATH 1141, MATH 1142, and MATH 2243 calculus requirements.

Any Physics class at the 2000 level or higher and not otherwise required by the major may be used to satisfy the Physics Elective requirement(s).

Plan of Study

The final plan of study depends on the Track you select. The following introductory classes, however, are the same for all tracks.

Course	Title	Credits
First Year		
Fall		
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
Free Elective		3
	Credits	**17**
Spring		
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
Free Elective		3
	Credits	**17**
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 3215	Computational Physics	3
Core Curriculum		3
Physics Elective		3
Core		
	Credits	**17**
	Total Credits	**67**