

# PHYSICS MAJOR

## Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
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
<b>Spring</b>		
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
<b>Second Year</b>		
<b>Fall</b>		
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
PHYS 2285	Modern Physics	3
Core Curriculum		6
Free Elective		3
Credits		16
<b>Spring</b>		
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
Credits		17
<b>Third Year</b>		
<b>Fall</b>		
CHEM 1171	General Chemistry I	3
CHEM 1171L	General Chemistry I Lab	1
PHYS 3241	Thermal and Statistical Physics	3
PHYS 3271	Electricity and Magnetism	3
Core Curriculum		3
Free Elective		3
Credits		16
<b>Spring</b>		
CHEM 1172	General Chemistry II	3
CHEM 1172L	General Chemistry II Lab	1
MATH 3332	Partial Differential Equations	3

PHYS 3222	Modern Optics	3
PHYS 3222L	Modern Optics Lab	1
Physics Elective		3
Free Elective		3
Credits		17
<b>Fourth Year</b>		
<b>Fall</b>		
PHYS 3386	Quantum Physics	3
PHYS 4998	Theoretical/Experimental Capstone	3
Core Curriculum		3
Free Elective		6
Credits		15
<b>Spring</b>		
PHYS 4999	Theoretical/Experimental Capstone	1
Physics Elective		3
Core Curriculum		6
Free Elective		6
Credits		16
Total Credits		131