PHYSICS MAJOR, EDUCATION TRACK

Requirements

The Education track is designed for students interested in becoming high-school physics teachers. The requirements are designed to assist students who wish to pursue the Education minor, the 5-year integrated degree program, or a M.Ed. elsewhere.

Students on the Education Track must complete the following classes:

Code	Title	Credits
EDUC 2201	Explorations in Education	3
MATH 2217	Statistics I	3
Physics Core Course (Educational Cognate)		3
PHYS 3222	Modern Optics	3
PHYS 3385L	Advanced Lab in Physics	3
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		
EDUC 2201	Explorations in Education	3
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
PHYS 2285	Modern Physics	3
Core Curriculum		6
	Credits	**16**
Spring		
MATH 2217	Statistics I	3
MATH 2251	Ordinary Differential Equations	3
PHYS 2226	Classical Mechanics	3
PHYS 2285L	Modern Experimental Methods Lab	2
Core Curriculum		3
	Credits	**14**
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		
PHYS 3215	Computational Physics	3
PHYS 3222	Modern Optics	3
PHYS 3385L	Advanced Lab in Physics	3
Core Curriculum		3
Free Elective		3
	Credits	**15**
Fourth Year		
Fall		
PHYS 4998	Theoretical/Experimental Capstone	2
Physics Core Course (Education Cognate)		3
Physics Elective		3
Core Curriculum		3
Free Elective		3
	Credits	**14**
Spring		
PHYS 4999	Theoretical/Experimental Capstone	2
Free Elective		12
	Credits	**14**
	Total Credits	**124**