

PHYSICS, MINOR

The objectives of the physics minor are to provide a stronger background in the physical sciences for chemistry majors, math majors and other majors, and to provide preparation for the workplace and graduate or professional schooling.

Program Requirements

Code	Title	Credit Hours
Lower Division Requirement ¹		6 - 8
PHYS 2211 & 2211L	Principles of Physics I and Principles of Physics Lab I	4
or PHYS 3141	Thermodynamics	
or PHYS 3214	Classical Mechanics	
or PHYS 3454	Statics	
or PHYS 3455	Dynamics-Particles & Bodies	
or ENGR 2100	Basic Thermodynamics	
PHYS 2212 & 2212L	Principles of Physics II and Principles of Physics Lab II	4
or PHYS 3650	Modern Physics	
or PHYS 3213	Principles of Physics III - Modern Physics	
or PHYS 4215	Electricity and Magnetism I	
Upper Division Electives		9
Choose a minimum of 9 hours from the following: ²		9
ASTR 3010	Topics in Astrophysics	3
PHYS 3141	Thermodynamics	3
or CHEM 3411	Physical Chemistry I: Thermodynamics and Kinetics	
PHYS 3213	Principles of Physics III - Modern Physics (cannot take with PHYS 3650)	3
PHYS 3214	Classical Mechanics	3
PHYS 3220	On-Campus Internship I	3
or PHYS 3230	Introductory Research I	
or PHYS 3231	Introductory Research II	
or PHYS 4230	Physics Research Practicum I	
or PHYS 4231	Physics Research Practicum II	
PHYS 3454	Statics	3
PHYS 3650	Modern Physics (cannot take with PHYS 3213)	3
or CHEM 3412	Physical Chemistry II: Quantum Mechanics	
or CHEM 3311	Inorganic Chemistry	
PHYS 3650L	Modern Physics Laboratory	1
PHYS 3455	Dynamics-Particles & Bodies	3
PHYS 4215	Electricity and Magnetism I	3
PHYS 4216	Methods of Mathematical Physics	3
or MATH 4320	Numerical Methods	
PHYS 4217	Introduction to Quantum Mechanics	3
Total Credit Hours		15
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		17

Footnotes:

1. Substitution is allowed if PHYS 2211, PHYS 2211L, PHYS 2212 and PHYS 2212L are used for area F or another program requirements.

2. For the electives, only one substitution with a non-PHYS or non-ASTR course is allowed.

¹ Consult your advisor to determine which of these courses best meets your academic needs.

² Only one 3000-4000 level experiential learning course (PHYS 3220 On-Campus Internship I, PHYS 3230 Introductory Research I, PHYS 3231 Introductory Research II, PHYS 4230 Physics Research Practicum I, or PHYS 4231 Physics Research Practicum II) may be counted as an elective in the Physics minor.