MINOR IN PHYSICS

Units required for Minor: 21, all of which must be taken in Physics, and a minimum of 9 upper division units is required[1]

[1] Written approval from a Physics faculty advisor is required.

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
PHYS 11A	General Physics: Mechanics	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (3 Units)		
PHYS 106	Introduction to Modern Physics	3
Additional Upper Division Requirements (6 Units)		
Select 6 units of electives in consultation with an advisor:		6
PHYS 105	Mathematical Methods in Physics	
PHYS 110	Classical Mechanics	
PHYS 115	Electronics and Instrumentation	
PHYS 124	Thermodynamics and Statistical Mechanics	
PHYS 130	Acoustics	
PHYS 135	Electricity And Magnetism	
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	
PHYS 142	Applied Solid State Physics	
PHYS 145	Optics	
PHYS 150	Quantum Mechanics	
PHYS 151	Advanced Modern Physics	
PHYS 162	Scientific Computing: Basic Methods	
PHYS 175	Advanced Physics Laboratory	
Total Units		**21**

Note: PHYS 5A, PHYS 5B may be substituted for PHYS 11A, PHYS 11C, but the 21-unit minimum must be met by additional courses in one of two ways:

- PHYS 106 plus three other upper division Physics courses **OR**
- PHYS 106 plus PHYS 11B plus two other upper division Physics courses.