

PHYSICS B.A.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

MAJOR REQUIREMENTS

30 credits in major courses, plus 3 credits in ancillary courses, including:

Requirement Description	Credits	
Choose 1 of the following options:	8	
Option A:		
PHYS 1600 & PHYS 1650	Fundamentals of Physics I and Fundamentals of Physics II	
Option B:		
PHYS 1500 & PHYS 1550 & PHYS 1560	Physics for Engineers I and Physics for Engineers II and Physics Problem Solving II	
PHYS 2200	Classical Mechanics	3
PHYS 2500	Waves and Quanta	4
Choose 1 of the following:	3	
PHYS 2100	Experimental Physics I	
PHYS 4100	Experimental Physics II	
Choose 1 of the following:	3	
PHYS 3300	Electricity & Magnetism	
PHYS 3500	Quantum Mechanics I	
Intermediate Level or Above. 6-9 additional credits from the following:	6-9	
PHYS 2000 to 2989, or 3000 to 3989, or 4000 to 4989		
ASTR 2000 to 2989, or ASTR 3000 to 3989, or ASTR 4000 to 4989		
Up to 3 additional credits from the following, in any combination:	0-3	
Capstone Seminar: PHYS 4110		
Internship: PHYS 3991, PHYS 4991, ASTR 3991		
Independent Study: PHYS 2993, PHYS 3993, PHYS 4993, ASTR 2993, ASTR 3993		
Teaching Assistant: PHYS 3994, PHYS 4994, ASTR 3994, ASTR 4994		
Undergraduate Research: PHYS 2995, PHYS 3995, PHYS 4995, ASTR 2995, ASTR 3995		
Honors: PHYS 4996		

Advanced Mathematical Electives. 1 course/3 credits from the following:		3
MATH 2522	Applied Linear Algebra	
MATH 2544	Linear Algebra	
With the approval of the Physics Department, Special Topics courses (x990) in PHYS and ASTR may be counted toward the major.		
An additional laboratory science is strongly recommended.		

RESTRICTIONS

Students completing the B.A. in Physics may not also receive the B.S. in Physics.

PRE/CO-REQUISITES

Calculus through MATH 2248: Calculus III.

OTHER INFORMATION

In the College of Arts and Sciences (CAS), only one course may overlap between a major and a minor or between two CAS majors.

Courses for the major and/or its pre/co-requisites that are cross-listed in the catalog or schedule of courses under another course prefix may be taken under that other prefix and still count for these requirements.

With the approval of the chair/director, courses that applied to the major in previous years but have since been deactivated may be applied to this year's major requirements if they are reactivated.

For a Bachelor of Arts degree, no more than 45 credits in courses with the same departmental prefix may be used toward completion of the 120 credits required for graduation.

At least half of the credits used to complete major requirements must be taken at the University of Vermont.