

Department:	Physics
Degree:	Bachelor of Arts
Major:	PHYSICS

[Physics, B.A. \(Catalogue\)](#)

Year 1							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
PHYS	51	Fundamentals of Physics I	4	PHYS	152	Fundamentals of Physics II	4
MATH	21	Calculus I	4	MATH	22	Calculus II	4
		TAP Seminar	3			Distribution	3-4
		Distribution	3-4			D1 Diversity	3
			14-15				14-15
Year 2							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
PHYS	128	Waves and Quanta	4	PHYS	211	Classical Mechanics	3
MATH	121	Calculus III	4	MATH	124 or	Linear Algebra or	3
		Distribution/Sustainability	3	MATH	230	Ordinary Differential Equations	3
		Distribution	3			Distribution	3
		D2 - Diversity (Non-European Cultures course)	3			Distribution	3
						Minor	3
			17				15
Year 3							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
PHYS	213 or 273	Electricity & Magnetism or Quantum Mechanics I	3	PHYS	2XX*	Approved Physics Elective	3
PHYS	199	Experimental Physics I	3			Distribution	3
		Distribution	3			Minor	3
		Minor	3			Minor	3
		Elective	3			Elective	3
			15				15
Year 4							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
PHYS	2XX*	Approved Physics Elective	3	PHYS	2XX*	Approved Physics Elective	3
		Minor	3			Minor	3
		Elective	3			Elective	3
		Elective	3			Elective	3
		Elective	3			Elective	3
			15				15

Notes:

*Some approved physics electives can be taken at the 100-level or at other departments. Consult with the physics department for details.

> An additional laboratory science is strongly recommended.

Gateway courses:

BA students should complete two semesters of calculus (MATH 21 & 22 or 19 & 23) in their first year, and they should complete the sequence of gateway courses (PHYS 51, 152, 128, 199, and 211) by the end of their Junior year.

Distribution Requirements: B.A. degrees in the College of Arts and Sciences require completion of 7 distribution categories:

Fine Arts: one 3-credit course in a fine arts discipline

Foreign Language: two 3-credit courses in the same foreign language

Humanities: two 3-credit courses in a humanities discipline

Natural Sciences: two courses from specific departments; one course must include a lab

Literature: One 3-credit course in literature

Mathematical Sciences: One math course number 17 or higher, or Statistics 51 or higher, or Computer Science 008 or higher, or Philosophy 13, or Anthropology 113/Linguistics 163 or Linguistics 075

Social Sciences: Two 3-credit courses in social science disciplines.

General Requirements:

One Diversity Category 1 course – minimum 3 credits

One Diversity Category 2 course from list of D2 Non-European Cultures courses – minimum 3 credits

One Quantitative Reasoning course-minimum 3 credits

One Sustainability Category course - minimum 3 credits

One Writing and Information Literacy course– minimum 3 credits

>>A TAP course will satisfy UVM's Writing and Information Literacy requirement and might also count toward a distribution.

>>>Sustainability courses and Diversity courses might also count toward a distribution.

Minor Requirement:

A minor is required if you are pursuing a B.A. degree through the College of Arts and Sciences with only one major. Students pursuing a double major need not complete a minor.