

<b>Department:</b>	Physics
<b>Degree:</b>	Bachelor of Arts (Alternative for students who start with Math 10 instead of Math 21)
<b>Major:</b>	PHYSICS

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

Year 1							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
MATH	10	Pre-Calculus Mathematics	3	PHYS	30	Physics Problem Solving I	1
		TAP Seminar	3	PHYS	31	Physics for Engineers I	4
		Distribution	3	MATH	21	Calculus I	4
		Distribution	3-4			Distribution	3
		D1 Diversity	3			D2 - Diversity (Non-European Cultures course)	3
			14-15				15
Year 2							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
MATH	22	Calculus II	4	MATH	121	Calculus III	4
PHYS	125	Physics for Engineers I	3			Elective	3
PHYS	22	Introductory Lab II	1			Distribution	3
		Distribution/Sustainability	3			Distribution	3
		Distribution	3			Minor	3
		Minor	3				
			17				16
Year 3							
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
PHYS	199	Experimental Physics I	3	PHYS	2XX*	Approved Physics Elective	3
MATH	124 or	Linear Algebra or	3			Distribution	3
MATH	230	Ordinary Differential Equations				Minor	3
		Minor	3			Elective	3
		Elective	3				
			16				15
Year 4							
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	2XX*	Approved Physics Elective	3			Minor	3
		Minor	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.