

- This is a suggested schedule of courses based on degree requirements. Actual degree plan may differ depending on course of study selected, number of starting credits, or starting admission point. Please review degree audit carefully.
- This guide is not a substitute for academic advising or the degree audit. Contact your academic advisor with questions about scheduling, unique interests, or BA degree requirements. Some physics electives may require upper division math not necessarily required for BA.
- Competitive applicants to Physics will have the following: 1. All prerequisites completed or 1-2 in progress, 2. 3.0 grade in each prerequisite, 3. Cumulative GPA of 3.0. Most applicants who satisfactorily meet prerequisites are typically (but not always) admitted.
- *All classes are 5 credits unless followed by a parenthesis with a number, indicating the number of credits.*
- *Refer to the time schedule for up to date course offerings; including quarters, days and times*

	Autumn	Winter	Spring
Year 1	◆ <b>PHYS 121 – Mechanics or algebra-based BPHYS 114+117</b>	◆ <b>PHYS 122 – Electromagnetism</b>	◆ <b>PHYS 123 – Waves</b>
	◆ <b>STMATH 124 - Calculus with Analytical Geometry I</b>	◆ <b>STMATH 125 - Calculus with Analytical Geometry II</b>	✓ <b>STMATH 126 Calculus with Analytical Geometry III</b>
	❖ VLPA	❖ I & S	CSS 112 Intro Programming Scientific Applications (4 cr); suggested course
<p><i>Calculus II (STMATH 125) is a prerequisite for Differential Equations (STMATH 307). Calculus III is a prerequisite for Matrix Algebra (STMATH 308) and Multivariable Calculus (STMATH 324). STMATH 307 is a prerequisite for BPHYS 307 and BPHYS 221, but may be taken concurrently.</i></p>			
Year 2	B WRIT 134 Composition	B WRIT 135 Research Writing (or other 5 credit "W" course)	✓ B PHYS 221 Classical Mechanics
	✓ B PHYS 222 Modern Physics	✓ B PHYS 224: Thermal Physics	B PHYS electives (see degree checklist)
	✓ STMATH 307 Differential Equations (prerequisite for B PHYS 222 but may be taken concurrently)	BCHEM 143 (4 cr) + 144 lab (2 cr)	VLPA
<p><i>Completion 200-level Physics (BPHYS 224, 222, 221), 300-level Math (STMATH 307, 308, 324); strongly recommended to review 300- or 400-level Physics coursework to determine prerequisites for those classes.</i></p>			
Year 3	✓ B PHYS 231 Introduction to Experimental Physics (3 credits)	B PHYS 322 Electricity & Magnetism II	B PHYS Elective
	B PHYS 321 Electricity & Magnetism I	B PHYS elective (see degree checklist)	Elective/Minor Coursework
	B PHYS 494 Seminar (C/NC; 1 credit)	Elective/Minor Coursework	I & S (also a DIVERSITY course)
	VLPA		
<p><i>Intro to Experimental Physics (BPHYS 231) is the prerequisite for Experimental Physics Lab I &amp; II (BPHYS 431 or BPHYS 432). BPHYS 231 and 431 only offered in Autumn, so take BPHYS 231 no later than autumn of year 3 to stay on track for 4-year degree completion. Please note: students must select one course: BPHYS 431 (AUT) or BPHYS 432 (WIN) or BPHYS 450 (WIN)</i></p>			
Year 4	B PHYS electives (see degree checklist)	BPHYS electives (see degree checklist)	B PHYS 433 Senior Project
	B PHYS electives (see degree checklist)	BPHYS electives (see degree checklist)	B PHYS Elective
	B PHYS 484 Physics in Society and Industry (also a "W" and "I&S")	Elective/Minor Coursework	Elective/Minor Coursework

❖ fulfilled with Discovery Core    ◆ **Prerequisite: Required to apply for major**    ✓ milestones: Courses & requirements needed to progress.

*This Map is a suggested sequence of the current curriculum which may be altered to carry out the academic objectives of the University. The University specifically reserves the right to change the student's current map at any time within the student's period of study.*

Last updated: 1/16/2021