

Major Map

BULLETIN YEAR: 2019-2020 **Degree:** BA; BS

Major: PHYSICS

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction. For more specific advice and up to date schedules, it is expected that students will regularly discuss their plans of study with academic advisors and monitor the current class schedules as students are responsible for ensuring that all requirements for graduation have been met.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall Total Credit Hours: 12		Semester: Spring Total Credit Hours: 15	
*MTH 132 (Prerequisite)	4	*MTH 133 (Prerequisite)	4
PHY 145QR	4	PHY 146	4
PHY 175	1	PHY 176	1
ENG 101 Freshman Composition	3	Oral English Competency	3
		ENG 201 Intermediate Composition	3

NOTE* Prerequisites are listed but do not count towards the hours needed for this major.

Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 10		Semester: Spring Total Credit Hours: 10-13	
*MTH 223 (Prerequisite)	3	*MTH 233 (Prerequisite)	4
PHY 247	3	*MTH 334 (Prerequisite)	3
PHY 277	1	PHY Elective ¹	0-3
General Studies (UP WI)	3	General Studies (UP WI)	3

Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 6		Semester: Spring Total Credit Hours: 5-8	
PHY 312	3	PHY 332	3
PHY 322	3	PHY 578	2
		PHY Elective ¹	0-3

Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 7		Semester: Spring Total Credit Hours: 3-6	
PHY 442	4	PHY 450	3
PHY 491wi	3	PHY Elective ¹	0-3

Course	Cr. Hrs.	Course	Cr. Hrs.
FIFTH YEAR (if needed)			

*Total: 39 semester hours

A minimum total of 120 hours are required for graduation; 40 of these hours must be at the 300 level or above.

¹With approval of advisor. PHY 252, 254, or 256 (1 Cr each), or one of the 3 Cr courses at the 500-level.

NOTE: Students who have not had a pre-calculus course in high school may begin with MTH 130 (Pre-calculus) in the fall of the first year. This requires moving the University Physics courses (PHY 145, 146, 247 and accompanying labs) to later semesters. All students planning to major in physics should plan their program carefully with a departmental advisor.