

Physics MAJOR (Teaching)

B.S. in Education

First Year (2019-2020)

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
MTH 132 - Calculus I	4	MTH 133 - Calculus II	4
PHY 145QR - University Physics I	4	PHY 146 - University Physics II	4
PHY 175 - University Physics Lab I	1	PHY 176 - University Physics Lab II	1
CHM 131 - General Chemistry I (can be taken later)	4	CHM 132 - General Chemistry II (taken after CHM 131)	4
Total Credit Hours: 13		Total Credit Hours: 13	

Sophomore Year (2019 - 2020)

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
MTH 223 - Linear Algebra & Matrix Theory (pre-req for MTH 334)	3	MTH 334 - Differential Equations	3
MTH 233 - Calculus III	4	PHY 252 - Modern Concepts in Nuclear and Particle Physics	1
PHY 247QR - Introduction to Modern Physics	3	Physics Elective (1 cr)	1
PHY 277 - University Physics Lab III	3		
Total Credit Hours: 13		Total Credit Hours: 4	

Junior Year (2020 - 2021)

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
PHY 312 - Intro to Mathematical Physics	3	PHY 332 - Electricity and Magnetism	3
PHY 322 - Intermediate Mechanics	3	PHY 505* - Teaching Physics in the Secondary School (spring only!)	3
		PHS 563 - Physical Science Practicum (can be taken fall or spring)	2
Total Credit Hours: 3		Total Credit Hours: 8	

Senior Year (2021 - 2022)

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
PHY 442 - Intro to Quantum Theory	4	PHY 450 - Thermal Physics	3
		PHY 507 - Field Experience	

Note: * Class requires admittance into the Teacher Education Program. Please consult your advisor through CEHS Center for Student Services - EHS 421, 989-774-3309, or ehscss@cmich.edu

Required