

Physics Department

Course Scheduling

BS in Physics

Fall – 1 st year	Spring – 1 st year
(3) PHY 105 General Physics I*	(3) PHY 106 General Physics II*
(1) PHY 1L7 Freshman Physics Lab I	(1) PHY 1L8 Freshman Physics Lab I
(0) PHY 1R5 General Physics I Rec*	(0) PHY 1R6 General Physics II Rec*
(4) MAT 121 Calculus I	(4) MAT 122 Calculus II
(3) ENG 102	(3) ENG 103
(3) FYE 101	(3-6) Univ Core
(3) SOS 151	
Total: 17	Total: 14-17
<p>* Students placed in MAT 111 in fall should replace PHY 105 and PHY 106 by PHY 103 Introductory Physics I and PHY 104 Introductory Physics II and their recitation classes PHY 1R3 and PHY 1R4</p> <p>Students placed below MAT 111 cannot take Physics during the freshman year and may require additional time to complete requirements for a degree in Physics</p>	
Summer: Summer Internship	
Fall – 2 nd year	Spring – 2 nd year
(1) PHY 171 Problem Solving Skills in Physics	(3) PHY 251 Modern Physics
(3) PHY 211 Mechanics	(3) PHY 271 Mathematical Methods of Physics
(3) PHY 221 Waves and Optics	(3) PHY 291 Sophomore Physics Lab
(4) MAT 221 Calculus III	(3) MAT 222 Differential Equations
(4) CHE 103 General Chemistry I	(4) CHE 104 General Chemistry II
(0-3) Univ Core	
Total: 15-18	Total: 16
Summer: Summer Internship	
Fall – 3 rd year	Spring – 3 rd year
(3) PHY 331 Thermal Physics	(3) PHY 341 Electromagnetism
(3) CSC Computer programming	(3) PHY 391 Junior Physics Lab
(3) MAT 214 Linear Algebra	(3) PHY 371 Computational Physics
(6-9) Univ Core	(6) Univ Core
Total: 15-18	Total: 15
Summer: Summer Internship	

Fall – 4th year	Spring – 4th year
(3) PHY 311 Analytical Mechanics	(3) PHY 342 Electromagnetic Theory
(3) PHY 491/492 Senior Physics Lab/Senior Research	(3) PHY 451 Quantum Mechanics
(3-4) Selected Physics senior level course	(3-4) Selected Physics senior level course
(6) Electives	(6) Free Electives
Total: 15-16	Total: 15-16
TOTAL: 120-124	

Courses in bold must be taken following the sequence. Prerequisites may put additional restrictions on course sequence.

Physics Department

Course Scheduling

3-2 Pre-Engineering Program

Fall – 1 st year	Spring – 1 st year
(3) PHY 105 General Physics I*	(3) PHY 106 General Physics II*
(1) PHY 1L7 Freshman Physics Lab I	(1) PHY 1L8 Freshman Physics Lab I
(0) PHY 1R5 General Physics I Rec*	(0) PHY 1R6 General Physics II Rec*
(4) MAT 121 Calculus I	(4) MAT 122 Calculus II
(3) ENG 102	(3) ENG 103
(3) FYE 101	(3-6) Univ Core
(3) SOS 151	
Total: 17	Total: 14-17
<p>* Students placed in MAT 111 in fall should replace PHY 105 and PHY 106 by PHY 103 Introductory Physics I and PHY 104 Introductory Physics II and their recitation classes PHY 1R3 and PHY 1R4</p> <p>Students placed below MAT 111 cannot take Physics during the freshman year and may require additional time to complete requirements for a degree in Physics</p>	
Summer: Summer Internship	
Fall – 2 nd year	Spring – 2 nd year
(1) PHY 171 Problem Solving Skills in Physics	(3) PHY 251 Modern Physics
(3) PHY 211 Mechanics	(3) PHY 271 Mathematical Methods of Physics
(3) PHY 221 Waves and Optics	(3) PHY 291 Sophomore Physics Lab
(4) MAT 221 Calculus III	(3) MAT 222 Differential Equations
(3) Statics	(3) PHY 371 Computational Physics Or CSC158 Computer Programming I
(0-3) Univ Core	
Total: 14-17	Total: 16
Summer: Summer Internship	
Fall – 3 rd year	Spring – 3 rd year
(3) PHY 331 Thermal Physics	(3) PHY 341 Electromagnetism
(4) CHE 103 General Chemistry I	(3) PHY 391 Junior Physics Lab
(3) MAT 214 Linear Algebra	(4) CHE 104 General Chemistry II
(6) Univ Core	(3-4) PEN 341 Digital Electronics or PEN 391 Engineering Drawing
	(3) Univ Core
Total: 16	Total: 16-17

Courses in bold must be taken following the sequence. Prerequisites may put additional restrictions on course sequence.