

Physics/Astronomy 8-Semester Plan: Precalculus Start

Year 1			
<i>Fall 2021 Semester</i>		<i>Spring 2022 Semester</i>	
Course	Credits	Course	Credits
GE: Basic Communication	4	MAT251 Calculus I	4
MAT181 Precalculus	4	CHE202 General Chemistry II	3
CHE201 General Chemistry I	3	CHE212 General Chemistry II Lab	1
CHE211 General Chemistry I Lab	1	Foreign Language 2 ^{*2}	3
Foreign Language 1	3	PHY205 Exploring the Solar System	3
Physics & Astronomy Seminar ^{*1}	1	GE	
Semester Total	16	Semester Total	17
Year 2			
<i>Fall 2022 Semester</i>		<i>Spring 2023 Semester</i>	
Course	Credits	Course	Credits
MAT252 Calculus II	4	MAT353 Calculus III	4
PHY201 General Physics I	3	PHY202 General Physics II	3
PHY211 Physics I Lab	1	PHY212 General Physics II Lab	1
PHY342 Planetarium Operations	3	MAT359 Ordinary Differential Equations	3
GE	6	PHY340 Intro to Astrophysics ^{*3}	3
Semester Total	17	Semester Total	14
Year 3			
<i>Fall 2023 Semester</i>		<i>Spring 2024 Semester</i>	
Course	Credits	Course	Credits
PHY306 Mechanics 1	3	PHY322 Optics	3
MAT362 Linear Algebra ^{*4}	3	PHY310 Modern Physics Lab or PHY323 Optics Laboratory	1
Elective by advisement: CPS210 Computer Science 1 ^{*5}	4	PHY308 Modern Physics 1	3
PHY344 Extraterrestrial Life	3	MAT342 Applied Math II	3
Diversity course	3	PHY341 Observational Astronomy	3
		GE	3
Semester Total	16	Semester Total	16
Year 4			
<i>Fall 2024 Semester</i>		<i>Spring 2025 Semester</i>	
Course	Credits	Course	Credits
PHY307 Mechanics 2	3	PHY491 Physics Senior Project	3
PHY313 Electricity & Magnetism	3	PHY305 Computational Physics	3
PHY331 Quantum Mechanics	3	PHY422 Thermal Physics	3
PHY345 Galaxies and Cosmology	3	Elective by advisement: PHY424 Advanced Physics Lab (WI)	3
GE	3	GE	3
Semester Total	15	Semester Total	15
Total Credits: 126			

^{*1} Not required (NR), but strongly recommended

^{*2} NR if Foreign Language 1 was taken at intermediate level or above

^{*3} Also substitutes for PHY309 Modern Physics 2

^{*4} MAT359 + MAT362 substitute for MAT341

^{*5} CS1 suggested for students with no programming experience prior to PHY305