

Physics, B.S. - General Subplan/Option: 120 units
2021-2022 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	MAT 1140 Calculus I (B4) [FSpSu]	Prereq: C or better in MAT 1050 and MAT 1060, MAT 1070, or appropriate score on MDTP or ALEKS placement test.	4	MAT 1150 Calculus II (B4) [FSpSu]	Prereq: MAT 1140, MAT 115B, MAT 1140C, AP Calc AB ≥ 3 , or AP Calc BC ≥ 3 .	4	[] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	CHM 1210 General Chemistry I (B1) [FSpSu]	Prereq: SAT Math ≥ 550 ; ACT Math ≥ 23 ; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, Coreq: CHM 1210L.	3	PHY 1510 Introduction to Newtonian Mechanics (B1) [FSp]	Prereq: C- or better in MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116 or MAT 1150. Coreq: PHY 1510L.	3	
	CHM 1210L General Chemistry Laboratory I (B3) [FSpSu]	Prereq: SAT Math ≥ 550 ; ACT Math ≥ 23 ; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, Coreq: CHM 1210.	1	PHY 1510L Newtonian Mechanics Laboratory (B3) [FSp]	Coreq: PHY 1510.	1	
	GE Area E: Lifelong Learning and Self-Development [FSp]		3	GE Area A1: Oral Communication [FSP]		3	
	GE Area A2: Written Communication [FSp]		3	GE Area A3: Critical Thinking [FSp]		3	
			0			0	
			0			0	
			0			0	
		Total Units	14		Total Units	14	

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	Year 2	MAT 2140 Calculus III [FSpSu]	Prereq: MAT 116, MAT 214, MAT 1150, or MAT 1150C.	4	Option Electives [FSp]	Prereq: MAT 2010/L Introduction to Computational Methods in Mathematics/Laboratory or CS 1260 Python for Beginners	
PHY 1520 Introduction to Electromagnetism and Circuits [FSp]		Prereq: C- or better in MAT 115 or MAT 1150; and C- or better in PHY 132, PHY 132B, PHY 1510B or PHY 1510. Coreq: PHY 1520L.	3	MAT 2250 Linear Algebra with Applications to Differential Equations [FSp]	Prereq: MAT 116, MAT 1150, or MAT 1150C.	4	
PHY 1520L Introductory Laboratory on Electromagnetism and Circuits [FSpSu]		Coreq: PHY 1520.	1	PHY 2530 Introduction to Electromagnetic Radiation and Special Relativity [FSp]	Prereq: C- or better in MAT 116 or MAT 1150; and C- or better in PHY 123, PHY 133, PHY 1220, or PHY 1520. Coreq: PHY 2530A.	2	
GE Area D2: U.S. Constitution and California Government [FSp]			3	PHY 2530A Electromagnetic Radiation and Special Relativity Recitation Activity [FSp]	Coreq: PHY 2530.	1	
GE Area B2: Life Sciences [FSp]			3	PHY 2530L Introductory Laboratory on Electromagnetic Radiation and Special Relativity [FSp]	Coreq: PHY 2530.	1	
GE Area F: Ethnic Studies [FSp]			3	GE Area D1: U.S. History American Ideals [FSp]		3	
			0			0	
			0			0	
	Semester Total Units		17	Semester Total Units		14	



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Year 3	PHY 2540 Introduction to Thermal and Quantum Physics [FSp]	Prereq: C- or better in PHY 234 or PHY 2530. Coreq: PHY 2540A.	2	PHY 3210 Advanced Classical Mechanics [Sp]	Prereq: C- or better in PHY 2530; C- or better in MAT 201, MAT 2010, or CS 1260; and C- or better in MAT 216 or MAT 2250. Coreq: PHY 3210A.	3	
	PHY 2540A Thermal and Quantum Physics Recitation Activity [FSp]	Coreq: PHY 2540.	1	PHY 3210A Advanced Classical Mechanics Recitation Activity [Sp]	Coreq: PHY 3210.	1	
	PHY 2540L Introductory Laboratory on Thermal and Quantum Physics [FSp]	Coreq: PHY 2540.	1	PHY 4140 Electricity and Magnetism I [Sp]	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4140A.	3	
	PHY 3600 Mathematical Methods of Physics I [FSp]	Prereq: C- or better in MAT 216 or MAT 2250. Coreq: PHY 2540 and PHY 3600A.	3	PHY 4140A Electricity and Magnetism I Recitation Activity [Sp]	Coreq: PHY 4140.	1	
	PHY 3600A Mathematical Methods of Physics I Recitation Activity [FSp]	Coreq: PHY 3600.	1	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	
	GE Area C1: Visual and Performing Arts [FSp]		3	Option Electives [FSp]	Select from Curriculum Sheet	4	
	GE Area C1 or GE Area C2 [FSp]	Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3			0	
	Unrestricted Electives		2			0	
	Semester Total Units		16	Semester Total Units		15	

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Year 4	PHY 4330 Thermal and Statistical Physics [F]	Prereq: C- or better in PHY 235 or PHY 2540; C- or better in MAT 214 or MAT 2140; and C- or better in MAT 216 or MAT 2250. Coreq: PHY 4330A.	3	PHY 4630 Undergraduate Seminar [Sp]	Prereq: C- or better in PHY 235 or PHY 2540.	1	
	PHY 4330A Thermal and Statistical Physics Recitation Activity [F]	Coreq: PHY 4330.	1	Option Electives [FSp]	Select from Curriculum Sheet	3	
	PHY 4010 Quantum Mechanics I [F]	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4010A.	3	Option Electives [FSp]	Select from Curriculum Sheet	3	
	PHY 4010A Quantum Mechanics I Recitation Activity [F]	Coreq: PHY 4010.	1	GE Area C3: Arts and Humanities Synthesis [FSp]		3	
	Option Electives [FSp]	Select from Curriculum Sheet	4	GE Area D4: Social Science Synthesis [FSp]		3	
	GE Area B5: Science and Technology Synthesis [FSp]		3	Unrestricted Elective		2	
			0			0	
			0			0	
<i>File an application to graduate</i>							
Semester Total Units		15	Semester Total Units		15		
Total Units						120	