

Major: Physics, B.S. - Biophysics Subplan/Option: 120 units
2018-2019 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	MAT 1140 Calculus I (B4)	Prereq: C or better in MAT 1050 and MAT 1060, or appropriate score on MDTP or ALEKS placement test.	4	MAT 1150 Calculus II (B4)	Prereq: MAT 1140, MAT 115B, MAT 1140C, AP Calc AB >=3, or AP Calc BC >=3.	4	
	CHM 1210 General Chemistry I (B1)	Prereq: 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, or STA 1200; or C- or better Coreq: CHM 1210L.	3	PHY 1510 Introduction to Newtonian Mechanics (B1)	Prereq: C- or better in MAT 114 or MAT 1140. Coreq: PHY 1510L.	3	
	CHM 1210L General Chemistry Laboratory I (B3)	Prereq: 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, or STA 1200; or C- or better Coreq: CHM 1210.	1	PHY 1510L Newtonian Mechanics Laboratory (B3)		1	
	GE Area E: Lifelong Learning and Self-Development	Recommended: SCI 1010/A	2	GE Area E: Lifelong Learning and Self-Development	Recommended: SCI 1020A	1	
	GE Area A1: Oral Communication		3	CHM 1220 General Chemistry II (B1)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220L.	3	
	GE Area A2: Written Communication		3	CHM 1220L General Chemistry Laboratory II (B3)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220.	1	
			0			0	
			0			0	
	Total Units	16		Total Units	13		

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	Year 2	MAT 2140 Calculus III	Prereq: MAT 116, MAT 214, MAT 1150, or MAT 1150C.	4	MAT 2010 Introduction to Computational Methods in Mathematics	Prereq: MAT 116 or MAT 1150. Coreq: MAT 2010L.	2
PHY 1520 Introduction to Electromagnetism and Circuits		Prereq: C- or better in MAT 115 or MAT 1150; and C- or better in PHY 132, PHY 132B or PHY 1510. Coreq: PHY 1520L.	3	MAT 2010L Introduction to Computational Methods in Mathematics Laboratory	Prereq: MAT 116 or MAT 1150. Coreq: MAT 2010.	1	
PHY 1520L Introductory Laboratory on Electromagnetism and Circuits			1	MAT 2250 Linear Algebra with Applications to Differential Equations	Prereq: MAT 116 or MAT 1150.	4	
BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2)			3	PHY 2530 Introduction to Electromagnetic Radiation and Special Relativity	Prereq: C- or better in MAT 116 or MAT 1150; and C- or better in PHY 123, PHY 133, PHY 1220, or PHY 1520.	3	
BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3)			1	PHY 2530L Introductory Laboratory on Electromagnetic Radiation and Special Relativity		1	
GE Area C1: Visual and Performing Arts			3	BIO 1220 Foundations of Biology: Evolution, Ecology, and Biodiversity	Prereq: BIO 121, BIO 121L, and BIO 1210B, or BIO 1210 and BIO 1210L. Coreq: BIO 1220L.	3	
			0	BIO 1220L Foundations of Biology: Evolution, Ecology, and Biodiversity Laboratory	Prereq: BIO 121, BIO 121L, and BIO 1210B, or BIO 1210 and BIO 1210L. Coreq: BIO 1220.	1	
			0			0	
	Semester Total Units	15		Semester Total Units	15		

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Year 3	PHY 2540 Introduction to Thermal and Quantum Physics	Prereq: C- or better in PHY 234 or PHY 2530.	3	Option Elective	Select from Curriculum Sheet	2	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	PHY 2540L Introductory Laboratory on Thermal and Quantum Physics		1	Option Elective	Select from Curriculum Sheet	3	
	Option Elective	Select from Curriculum Sheet	3	Option Elective	Select from Curriculum Sheet	3	
	GE Area A3: Critical Thinking		3	GE Area C2a: Philosophy and Civilization		3	
	GE Area D1: U.S. History American Ideals		3	GE Area D2: U.S. Constitution and California Government		3	
	PHY 3600 Mathematical Methods of Physics I	Prereq: C- or better in MAT 216 or MAT 2250. Coreq: PHY 2540 and PHY 3600A.	3			0	
	PHY 3600A Mathematical Methods of Physics I Recitation Activity		1			0	
			0			0	
	<i>Take the Graduation Writing Test</i>						
	Semester Total Units		17	Semester Total Units		14	

Year 4	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	PHY 4330 Thermal and Statistical Physics	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	Prereq: C- or better in PHY 235 or PHY 2540.	1	
PHY 4330A Thermal and Statistical Physics Recitation Activity		1	Option Elective	Select from Curriculum Sheet	3		
Option Elective	Select from Curriculum Sheet	2	Option Elective	Select from Curriculum Sheet	2		
Option Elective	Select from Curriculum Sheet	3	GE Area B5: Science and Technology Synthesis		3		
GE Area C2b: Literature and Language Other than English		3	GE Area C3: Arts and Humanities Synthesis		3		
GE Area D3: Social Sciences: Principles, Methodologies, Value Systems, and Ethics		3	GE Area D4: Social Science Synthesis		3		
		0			0		
		0			0		
<i>File an application to graduate</i>							
Semester Total Units			15	Semester Total Units		15	
Total Units						120	