Physics, B.S. - Biophysics Subplan/Option: 120 units 2019-2020 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments	Cincs	Courses	Requirements/Comments	Circs	Comments
	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	
Year 1	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)	Coreq: PHY 1510.	1	
	GE Area E: Lifelong Learning and Self- Development		3	GE Area A1: Oral Communication	$m \cap l$	3	2
	GE Area A2: Written 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	
			0	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	
	Total Units		14		Total Units	15	

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	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments	Cints	Comments
	MAT 2140 Calculus III	Prereq: MAT 116, MAT 214, MAT 1150, or MAT 1150C.	4	MAT 2010 Introduction to Computational Methods in Mathematics (Success Marker)	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, PHY 1510B or PHY 1510. Coreq: PHY 1520L.	3	MAT 2250 Linear Algebra with Applications to Differential Equations	Prereq: MAT 116, MAT 1150, or MAT 1150C.	4	
	PHY 1520L Introductory Laboratory on Electromagnetism and Circuits	Coreq: PHY 1520.	1	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	
Year 2	BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2)	Coreq: BIO 1210L.	3	PHY 2530L Introductory Laboratory on Electromagnetic Radiation and Special Relativity	Coreq: PHY 2530.	1	
	BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3)	Coreq: BIO 1210.	1	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	
	GE Area A3: Critical Thinking		3	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	MAT 2010L Introduction to Computational Methods in Mathematics Laboratory	Coreq: MAT 2010.	1	
		Semester Total Units	15		Semester Total Units	15	

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	Fall		Units	Spring		IIn:ta	Comments
	Courses	Requirements/Comments	Omis	Courses	Requirements/Comments	Units	Comments
	PHY 2540 Introduction to Thermal and Quantum Physics	Prereq: C- or better in PHY 234 or PHY 2530.	3	Option Electives	Select from Curriculum Sheet	4	Graduation Writing Test must be taken before completion of 75 units.
	PHY 2540L Introductory Laboratory on Thermal and Quantum Physics	Coreq: PHY 2540.	1	Option Electives	Select from Curriculum Sheet	3	
ar 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	Option Elective	Select from Curriculum Sheet	3	
Year	PHY 3600A Mathematical Methods of Physics I Recitation Activity	Coreq: PHY 3600.	1	GE Area C2: Literature, Modern Languages, Philosophy and Civilization		3	
	GE Area C1: Visual and Performing Arts		3	GE Area D2: U.S. Constitution and California Government		3	
	GE Area D1: U.S. History American Ideals		3			0	
	Take the Graduation Writing Test						
		Semester Total Units	14		Semester Total Units	16	

	Fall		Units	Spring		Units	Comments
Year 4	Courses	Requirements/Comments	Units	Courses	Requirements/Comments	Units	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	Coreq: PHY 4330.	1	Option Electives	Select from Curriculum Sheet	4	
	Option Electives	Select from Curriculum Sheet	2	GE Area B5: Science and Technology Synthesis		3	
	Option Electives	Select from Curriculum Sheet	3	GE Area C3: Arts and Humanities Synthesis		3	
	GE Area C1 or GE Area C2	Prereq: Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3	GE Area D4: Social Science Synthesis		3	
	GE Area D3: Social Sciences: Principles, Methodologies, Value Systems, and Ethics		3	Unrestricted Elective		2	
	File an application to gra	File an application to graduate					
		Semester Total Units	15		Semester Total Units	16	
					Total Units	120	