

## Environmental Biology, B.S.: 120 units 2021-2022 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2) [FSp] (Success Marker)	Coreq: BIO 1210L.	3	BIO 1220 Foundations of Biology: Evolution, Ecology, and Biodiversity [FSp]	Coreq: BIO 1220L.	3	[ ] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3) [FSp] (Success Marker)	Coreq: BIO 1210.	1	BIO 1220L Foundations of Biology: Evolution, Ecology, and Biodiversity Laboratory [FSp]	Coreq: BIO 1220.	1	
	CHM 1210 General Chemistry I (B1) [FSpSu]	Prereq: SAT Math $\geq$ 550; ACT Math $\geq$ 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	CHM 1220 General Chemistry II (B1) [FSpSu]	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	
	CHM 1210L General Chemistry Laboratory I (B3) [FSpSu]	Prereq: SAT Math $\geq$ 550; ACT Math $\geq$ 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.	1	CHM 1220L General Chemistry Laboratory II (B3) [FSpSu]	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	
	ENG 1103 First Year Composition (A2) [FSp] (Success Marker)	or ENG 1101 - Stretch Composition II (A2)	3	MAT 1200 Calculus for Life Sciences (B4) [FSpSu] (Success Marker)	Prereq: MAT 105, MAT 1050, MAT 1052, or ALEKS Comp $\geq$ 61.	3	
	GE Area E: Lifelong Learning and Self-Development [FSp]		3	GE Area A3: Critical Thinking [FSp]	ENG 2105 - Written Reasoning (A3) or PHL 2020 - Critical Thinking (A3)	3	
	<b>Total Units</b>		<b>14</b>	<b>Total Units</b>		<b>14</b>	

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<b>Year 2</b>	BIO 2400 Genetics [FSpSu]	Prereq: BIO 121/BIO 121L, BIO 122/BIO 122L, and BIO 123/BIO 123L; BIO 121/BIO 121L and BIO 122/BIO 122L/BIO 1220C; BIO 121/BIO 121L/BIO 1210B and BIO 1220/BIO 1220L; BIO 1210/BIO 1210L and BIO 1220/BIO 1220L; BIO 115/BIO 115L/BIO 115A; BIO 1150/BIO 1150L;	3	Major Electives	BIO 2050/L, BIO 2060/L, or BIO 2070/L	4	
	Major Required [FSp]	CHM 2010/ L Elements of Organic Chemistry/Laboratory or CHM 3140/L Organic Chemistry/Laboratory I	4	BIO 3250 Principles of Ecology [FSp]	Prereq: BIO 121/BIO 121L, BIO 122/BIO 122L, and BIO 123/BIO 123L; BIO 121/BIO 121L and BIO 122/BIO 122L/BIO 1220C; BIO 121/BIO 121L/BIO 1210B and BIO 1220/BIO 1220L; or BIO 1210/BIO 1210L and BIO 1220/BIO 1220L.	3	
	STA 1300 Biostatistics (B4) [FSp]	Prereq: C or better in MAT 12, ESM 12, MAT 1060, MAT 106, MAT 1250, MAT 125, MAT 1910, MAT 191, MAT 1050, MAT 105, STA 1200, or STA 120; or C- or better in MAT 1051.	3	BIO 2110L Biostatistics Laboratory [FSp]	Prereq: STA 120 or STA 1300; AND BIO 121/BIO 121L, BIO 122/BIO 122L, and BIO 123/BIO 123L; BIO 121/BIO 121L and BIO 122/BIO 122L/BIO 1220C; BIO 121/BIO 121L/BIO 1210B and BIO 1220/BIO 1220L; BIO 1210/BIO 1210L and BIO 1220/BIO 1220L; BIO 115/115L/115A; o	1	
	GE Area A1: Oral Communication [FSp]		3	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	
	GE Area F: Ethnic Studies [FSp]		3	GE Area D1: U.S. History American Ideals [FSp]		3	
	<b>Semester Total Units</b>		<b>16</b>	<b>Semester Total Units</b>		<b>14</b>	

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 3</b>	BIO 3250L Ecology Laboratory [Sp]	Prereq: BIO 3250 or BIO 325; BIO 2110L or BIO 211L; and BIO 123/BIO 123L, BIO 1220/BIO 1220L, or BIO 122/BIO 122L/BIO 1220C.	1	BIO 3240 Principles of Evolution [FSp]	Prereq: BIO 123/BIO 123L and BIO 303; or BIO 1220/BIO 1220L and BIO 2400; or BIO 122/BIO 122L and BIO 1220C.	3	
	Major Electives	BIO 2050/L, BIO 2060/L, or BIO 2070/L	4	Emphasis Electives	Select from Curriculum Sheet	4	
	Emphasis Electives	Select from Curriculum Sheet	3	PHY 1220 Physics of Electromagnetism, Circuits, and Light [FSp]	Prereq: C- or better in PHY 122, PHY 122B, PHY 1210, or PHY 1210B. Coreq: PHY 1220L.	3	
	PHY 1210 Physics of Motion, Fluids, and Heat (B1) [FSp]	Prereq: C- or better in MAT 106, MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116, MAT 1150, MAT 1200, or MAT 1300. (MAT 1300 can be concurrent.) Coreq: PHY 1210L.	3	PHY 1220L Electromagnetism, Circuits, and Light Laboratory [FSp]	Coreq: PHY 1220.	1	
	PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3) [FSp]	Coreq: PHY 1210.	1	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	
	GE Area D2: U.S. Constitution and California Government [FSp]		3	GE Area C1: Visual and Performing Arts [FSp]		3	
	<b>Semester Total Units</b>		<b>15</b>	<b>Semester Total Units</b>		<b>17</b>	

Year 4	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	RS 3020 Global Regenerative Systems (D4) [FSp]	Prereq: Junior Standing; and one course in GE Areas A1, A2, A3, B1, B2, B3, and B4.	3	Major Electives	Select from Curriculum Sheet	4	
Major Required	BIO 4410 Internship in Biology or BIO 4610 Undergraduate Research or BIO 4910S Interpretation of Science Service Learning	1	Major Electives	Select from Curriculum Sheet	4		
Major Electives	Select from Curriculum Sheet	4	Major Electives	Select from Curriculum Sheet	4		
Major Electives	Select from Curriculum Sheet	4	Major Required	BIO 3120 Biodiversity Conservation (B5) or BIO 3040 Environment and Society (B5)	3		
GE Area C3: Arts and Humanities Synthesis [FSp]		3			0		
<i>File an application to graduate</i>							
<b>Semester Total Units</b>		<b>15</b>	<b>Semester Total Units</b>		<b>15</b>		
					<b>Total Units</b>	<b>120</b>	