

**Civil Engineering, B.S. - Environmental Engineering Subplan/Option: 126 units**  
**2021-2022 Academic Year**

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	CE 1001 Civil Engineering [FSp]	Prereq: BSCE, BSCET, BSCEM or MSCE Major. Coreq: CE 1001L or CE 127L; and College Level Math.	1	CE 1011 Surveying Engineering [FSpSu]	Prereq: C- or better in CE 1001, CE 1101, CE 127, or ETC 130; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 1011L, CE 134L, or ETC 131L; and MAT 114, MAT 1140, MAT 130, or MAT 1300.	3	[ ] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	CE 1001L Civil Engineering Laboratory [FSp]	Prereq: BSCE, BSCET, BSCEM or MSCE Major. Coreq: CE 1001 or CE 127; and College Level Math.	1	CE 1011L Surveying Engineering Laboratory [FSpSu]	Prereq: C- or better in CE 1001L, CE 1101L, CE 127L, or ETC 130L; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 1011, CE 134, or ETC 131; and MAT 114, MAT 1140, MAT 130, or MAT 1300.	1	
	GE Area E: Lifelong Learning and Self-Development [FSp]	Recommend EGR 1000/L	3	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	
	GE Area A2: Written Communication [FSp] (Success Marker)		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	
	MAT 1140 Calculus I (B4) [FSpSu] (Success Marker)	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] (Success Marker)	Prereq: MAT 1140, MAT 115B, MAT 1140C, AP Calc AB $\geq$ 3, or AP Calc BC $\geq$ 3.	4	
	GE Area A1: Oral Communication [FSp]		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	
	GE Area B2: Life Sciences [FSp]		2	PHY 1510L Newtonian Mechanics Laboratory (B3) [FSp]	Coreq: PHY 1510.	1	

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	<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>16</b>



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Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	CE 2021 Infrastructure Economics and Public Policy [FSpSu]	Prereq: MAT 114 or MAT 1140; and BSCE, BSCET, BSCEM, or MSCE Major.	3	CE 2011 Technical Communications [FSpSu]	Prereq: GE Area A and BSCE, BSCET, BSCEM, or MSCE Major.	3	
CE 2041 Engineering Statics [FSpSu]	Prereq: C- or better in MAT 1150, MAT 115, or MAT 130; C or better in PHY 1510 or PHY 131; and C of better in PHY 1510L or PHY 131L.	3	CE 2051 Mechanics of Materials [FSpSu]	Prereq: C- or better in ME 214, ETT 210, CE 2041, ARO 2041, or ETM 2101.	3		
MAT 2140 Calculus III [FSpSu]	Prereq: MAT 116, MAT 214, MAT 1150, or MAT 1150C.	4	MAT 2240 Elementary Linear Algebra and Differential Equations [FSpSu]	Prereq: MAT 116, MAT 1150, or MAT 1150C.	3		
GE Area F: Ethnic Studies [FSp]		3	GSC 3210 Engineering Geology I (B5) [FSpSu]	Prereq: Upper Division standing; and Lower division GE requirements in Areas A and B. Coreq: GSC 3210L.	2		
PHY 1520 Introduction to Electromagnetism and Circuits [FSpSu]	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	GSC 3210L Engineering Geology I Laboratory (B5) [FSp]	Prereq: Upper Division standing; and Lower division GE requirements in Areas A and B. Coreq: GSC 3210.	1		
PHY 1520L Introductory Laboratory on Electromagnetism and Circuits [FSp]	Coreq: PHY 1520.	1	GE Area D1: U.S. History American Ideals [FSp]		3		
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<b>Semester Total Units</b>		<b>17</b>	<b>Semester Total Units</b>		<b>15</b>		

Year 3	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	CE 2030 Civil Engineering Materials [FSpSu]	Prereq: C- or better in ME 218, ETT 220, or CE 2051; CHM 121 or CHM 1210; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 221L or CE 2030L.	2	CE 3201 Environmental Engineering [FSpSu]	Prereq: CHM 121 or CHM 1210; CHM 121L or CHM 1210L; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 3201L, and CE 2061 or ME 311.	3	
CE 2030L Civil Engineering Materials Laboratory [FSpSu]	Prereq: C- or better in ME 218, ETT 220, or CE 2051; CHM 121L or CHM 1210L Coreq: CE 221 or CE 2030.	1	CE 3201L Environmental Engineering Laboratory [FSpSu]	Prereq: BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 3201.	1		
CE 2061 Fluid Mechanics [FSpSu]	Prereq: C- or better in ME 214, ETT 210, CE 2041, ARO 2041, or ETM 2101.	3	CE 3211 Water Resources Engineering [FSpSu]	Prereq: CE 2061, ME 311, or ETT 310; and BSCE, BSCET, BSCEM, or MSCE Major.	3		
CE 2070 Computer Programming and Numerical Methods [FSpSu]	Prereq: C- or better in MAT 224, MAT 2240, or MAT 216.	3	Option Electives [FSp]	Select from Curriculum Sheet	3		
IME 3011 App. of Stats in Engineering [FSp]	Prereq: MAT 115, MAT 116, MAT 214, MAT 215, MAT 216, MAT 224, or MAT 1150.	2	Option Electives [FSp]	Select from Curriculum Sheet	3		
GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	GE Area D2: U.S. Constitution and California Government [FSp]		3		
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		
		0			0		
<b>Semester Total Units</b>		<b>17</b>	<b>Semester Total Units</b>		<b>16</b>		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 4	EGR 4810 Project Design Principles and Applications (B5) [FSp]	Prereq: Lower division GE requirements in Areas A and B.	1	EGR 4820 Project Design Principles and Applications (B5) [SpSu]	Prereq: Lower division GE requirements in Areas A and B.	1	
	CE 4211 Applied Hydrology [FSp]	Prereq: CE 332 or CE 3211; and BSCE, BSCET, BSCEM, or MSCE Major.	3	EGR 4830 Project Design Principles and Applications (B5) [SpSu]	Prereq: Lower division GE requirements in Areas A and B.	1	
	CE 4201 Water and Wastewater Engineering [FSp]	Prereq: CE 332 or CE 3211; CHM 121L or CHM 1210L; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 4201L.	3	Option Electives [FSp]	Select from Curriculum Sheet	3	
	CE 4201L Water and Wastewater Engineering Laboratory [FSp]	Prereq: CE 332 or CE 3211; CHM 121L or CHM 1210L; and BSCE, BSCET, BSCEM, or MSCE Major. Coreq: CE 4201.	1	Option Electives [FSp]	Select from Curriculum Sheet	3	
	CE 4241 Environmental Remediation [eS]	Prereq: CE 351 or CE 3201; and BSCE, BSCET, BSCEM, or MSCE Major.	3	IME 4020 Ethical Concepts in Technology and Applied Science (B5, C3) [FSpSu]	Prereq: Lower division GE requirements in Area A, at least two sub-areas in Area B, and at least two sub-areas in Area C.	3	
	GE Area C1: Visual and Performing Arts [FSp]		3	EGR 4050 Role of Design Professionals In Society (D4) [FSpSu]	Prereq: Lower division GE requirements in Areas A and D, and sub-area B4.	3	
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<i>File an application to graduate</i>							
<b>Semester Total Units</b>			<b>14</b>	<b>Semester Total Units</b>			<b>14</b>
						<b>Total Units</b>	<b>126</b>