

Updated 7/1/2019

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR	
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Spring
Computer Aided Drafting in Civil Engineering CE 113 (2)			Introductory Experiments in Transportation Engineering CE 222 (1)			Programming Applications in Engineering CE 251 (2) (CE 203; CE 204 or 208†; MATH 244)			Senior Design Project I and II CE 466 (3)³ (CE 321, 322, 336, 337, 355, 381, 382, 465)	
Introduction to Civil Engineering CE 111 (1)	Design Principles in CE CE 112 (2)		Mechanics of Materials I CE 204 (3)¹ (ME 211)	Mechanics of Materials II CE 207 (2)¹ (CE 204)		Structural Engineering CE 352 (4) (CE 207 or 208; CE 251†)			Civil Engineering Professional Practice CE 465 (1) (Sr Standing and Instr. Consent)	CE 467 (3)³ (CE 466)
	General Chemistry for Physical Science & Engineering I CHEM 124 (4) * [B3/B4]	General Chemistry for Physical Science & Engineering II CHEM 125 (4) (CHEM 124)	Engineering Statics ME 211 (3) (MATH 241†; PHYS 131 or 141)	Engineering Dynamics ME 212 (3) (MATH 241; ME 211 or ARCE 211)		Civil Engineering Materials CE 250 (2) (CE 204 or 208†; CE 113†)	Reinforced Concrete Design CE 355 (4) (CE 250, 352)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
Calculus I MATH 141 (4) * [B1]	Calculus II MATH 142 (4) (MATH 141 w/min C-) [B1]	Calculus III MATH 143 (4) (MATH 142 w/min C-) [Add'l Area B]	Calculus IV MATH 241 (4) (MATH 143)	Linear Analysis I MATH 244 (4) (MATH 143)		Fundamentals of Transportation Engineering and Lab CE 321 (3) & CE 322 (4) (PHYS 141; CE 259 or CM 113; CE 222; or graduate standing)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	General Physics IA PHYS 141 (4) * [Add'l Area B]	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Water Resources Engineering and Hydraulics Lab CE 336 (4) & CE 337 (4) (ME 341 or ENVE 264)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	Engineering Surveying BRAE 239 (4) (MATH 119)	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)		Geotechnical Engineering and Lab CE 381 (4) & CE 382 (4) (CE 207 or 208; ME 341 or ENVE 264. Concur: CE 382)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	Expository Writing ENGL 133/134 (4)** [A1]	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Construction Management and Project Planning CE/CM 371 (4) (ARCE 106, CE 259, or CM 113)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	Oral Communication COMS 101/102 (4)** [A2]	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Fundamentals of Environmental Engineering ENVE 331 (4) (CM 125 or 128; MATH 242 or 244)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	Technical Writing for Engineers ENGL 149 (4)** (Completion of GE A1 with a C- or better. Can be taken anytime between Winter of Freshman and Winter of Sophomore Years)	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Statistical Methods for Engineers STAT 312 (4) (MATH 142) [B6]		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
	GE (4) **	General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Approved Engineering Science Elective (2-4)² ***		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
		General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127. Recom: MATE 215 concur.)	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement before 90 earned units; students should complete the requirement before senior year)		Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***	Approved Technical Elective (4)³ ***
17	18	18	15	14	15	18	15-17	13	17	15
									TOTAL:	190-192

Fall:
CEA Madrid, Spain
CEA Paris, France

Fall:
CEA Madrid, Spain
Swinburne, Australia

Spring:
Munich, Germany

Fall:
KTH, Sweden
Chalmers, Sweden

Fall - Spring:
CSU IP Queretaro, Mexico

Summer:
CEA Barcelona, Spain
Cal Poly Affiliated Programs

Summer:
CEA Barcelona, Spain
Cal Poly Affiliated Programs

Summer:
Munich, Germany
TECNUN, Spain