Bachelor of Science Requirements for CEE (120 units)

Freshman Year		Fall	Spring
Math 1A - 1B, Calculus		4	4
Chem 1A, General Chemistry		4	_
Physics 7A, Physics for Scientists and Engineers		_	4
Engin 7, Introduction to Computer Programming for Scientists and Engineers		_	4
Basic Science Breadth Elective (Bio 1B or CE 70)		3-4	_
CE 92, Introduction to Civil and Environmental Engineering		1	-
Reading and Composition Courses from List A and List B		4	4
Total		16-17	16
Sophomore Year		-	_
Math 53-54, Multivariable Calculus, Linear Algebra and Differential Equations		4	4
Physics 7B, Physics for Scientists and Engineers		4	-
Basic Science Elective: Chemistry 1B or 4B, General Chemistry or Physics 7C, Physics		-	4
for Scientists and Engineers			
CE C30/ME C85, Introduction to Solid Mechanics		-	3
CE 93, Engineering Data Analysis		-	3
CE 60, Structure and Properties of Civil Engineering Materials		3	-
Engineering Sophomore Elective: CE 11, Engineered Systems and Sustainability or CE		-	3
70, Engineering Geology (if CE 70 was taken in the freshman year, then students must			
take CE 11 here)			
First Additional Humanities and Social Studies Course		4	-
Total		15	17
Junior Year			
CE 100, Elementary Fluid Mechanics		4	-
CE 130N, Mechanics of Structures		-	3
Engineering Science Elective: Engin 115 or ME 40, Thermodynamics, or ME 104,		-	3-4
Engineering Mechanics II			
Elective Core (4 of 7), see below		6	6
Second and Third Additional Humanities and Social Studies Electives		4	3
Total		14	15-16
Senior Year			
CE 192, The Art and Science of Civil and Environmental Engineering Practice		1	-
Engineering Electives [†]		12	3
Design Elective (see list below)		-	3-4
Fourth Additional Humanities and Social Studies Elective		-	4
Free Electives		3-4	3-4
Total		16-17	13-15
Elective Core	Design Electives	(T) 1136 1	
CE 103, Hydrology (Spring)	CE 105, Applied Environmental Fluid Mechanics		
CE 111, Environmental Engineering (Fall) CE 120, Structural Engineering (Fall)	(Spring) CE 112 Environmental Engineering Design (Spring)		
CE 120, Structural Engineering (Fair) CE 155, Transportation Systems Engineering (Spring)	CE 112, Environmental Engineering Design (Spring) CE 122N and L, Design of Steel Structures (N Fall,		
CE 167, Engineering Project Management (Fall)	L Spring)		(IN Fall,
CE 175, Geotechnical and Geoenvironmental	CE 123N and L, Design of Reinforced Concrete		
Engineering (Fall and Spring)	Structures (N Fall, L Spring)		
CE 191, Civil and Environmental Systems Analysis	CE 153, Design of Transportation Facilities (Fall)		(Fall)
(Fall)	CE 177, Foundation Engineering Design (Fall)		
	CE 180, Construction, Maintenance, and Design of		
	Engineered Systems (Sprin		J
CE 186, Design of Cyber-Phy			(Spring)
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See coe.berkeley.edu/hssreq for a list of approved humanities and social studies courses.

†Engineering Electives (15 units total): Upper-division technically oriented engineering coursework offered in the College of Engineering or in Chemical Engineering. Cannot include any course taken on a P/NP basis, BioE 100; CE 194, 195, C195; E 100, 110, C111, 124, 130AC, 140, 191, 193, 195, 196; EE 194; IEOR 172, 190 series; ME 106; ChemE 185.