

Civil Engineering, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
A1		Communication		3
A2	ENGL 102	Accelerated College Writing		3
B1/B3/LD Major Prereq	PHYS 135	Phys. for Scientists and Engineers I		4
B4/LD Major Prereq	MATH 130	Calculus I	Precalculus	4
			Total:	14
Second Semester (SPRING)				
LD Major/Second Comp	ENGR 200	Intro to Engineering And Design		3
C2		Humanities		3
LD Major Prereq	MATH 131	Calculus II	MATH 130	3
B2				3
LD Major Prereq	Physics 136	Phys. for Scientists and Engineers II	PHYS 135	4
			Total:	16
Third Semester (FALL)				
LD Major	ENGR 220	Statics	PHYS 135	3
A3		Critical Thinking		3
B1/B3	CHEM 110	General Chemistry for Engineering		3
F		Ethnic Studies		3
LD Major Prereq	MATH 230	Calculus III	MTH 131	3
			Total:	15
Fourth Semester (SPRING)				
C1		Arts		3
Code 1/D1				3
LD Major	ENGR 215	Computational Methods in Engineering		3
LD Major	CIVE 206	Engineering Materials and Laboratory	PHYS 135	3
LD Major Prereq	MATH 210	Linear Algebra w/Diff Eq.	MATH 130	3
			Total:	15
Fifth Semester (FALL)				
UD-B/Sustainability Code 2/D2	PHYS 308	Sustainable Energy Systems		3
UD Major	CIVE 319	Fluid Mechanics	PHYS 135	3
Add'l C1 or C2				3
UD Major	CIVE 330	Strength of Materials	CIVE 206	3
			Total:	15
Sixth Semester (SPRING)				
UD Major	CMGT 201	Surveying	MATH 130	2
UD Major	ENGR 320	Engr Econ	MATH 130	3
UD Major	CIVE 361	Transportation Engineering	Co Req INDE 330	3
UD Major	CIVE 385	Structural Analysis	CIVE 330	3
UD-C/Overlay/UWR				3
UD Major	INDE 330	Engineering Statistics and Probability	MATH 130	3
			Total:	17
Seventh Semester (FALL)				
UD-D/Overlay				3
UD Major	CIVE 410	Hydraulics and Water Resources	CIVE 319	3
UD Major	CIVE 421	Structural Engineering Design	CIVE 385	4
UD Major	CIVE 435	Highway and Pavement Design	CIVE 206	3
UD Major	CIVE 350	Geotechnical Engineering	ENGR 220	3
			Total:	16
Eighth Semester (SPRING)				
UD Major	CIVE 430	Environmental Engineering and Sustainability		3
UD Major	CIVE 440	Construction Engineering		3
UD Major	CIVE 492	Senior Design Project	Graduating senior	3
UD Major		Elective		3
			Total:	12
Total Units:				120

CSUEB General Breadth and Graduation Requirement Checklist	
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)	
<input type="checkbox"/>	A1. COMM 100 or 104, MLL 111
<input type="checkbox"/>	A2. ENGL 101, 102, or 104
<input type="checkbox"/>	A3. PHIL 100
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning	
<input type="checkbox"/>	B1. Physical Science
<input type="checkbox"/>	B2. Life Science
<input type="checkbox"/>	B3. Laboratory Activity
<input type="checkbox"/>	B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area C (9 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)	
<input type="checkbox"/>	C1. Arts
<input type="checkbox"/>	C2. Humanities
<input type="checkbox"/>	*Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)
Area D (6 units) : Social Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)	
<input type="checkbox"/>	D1.
<input type="checkbox"/>	D2.
Area E (3 units) : Lifelong Learning and Self-Development	
<input type="checkbox"/>	E.
Area F (3 units): Ethnic Studies	
<input type="checkbox"/>	F.
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.	
<input type="checkbox"/>	Second Composition
University Writing Requirement	
<input type="checkbox"/>	UWR
U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).	
<input type="checkbox"/>	Code 1.
<input type="checkbox"/>	Code 2.
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)	
<input type="checkbox"/>	UD-B. Upper-division Science Inquiry and Quantitative Reasoning
<input type="checkbox"/>	UD-C. Upper-division Arts OR Humanities
<input type="checkbox"/>	UD-D. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major	
<input type="checkbox"/>	Diversity (Div)
<input type="checkbox"/>	Social Justice (SJ)
<input type="checkbox"/>	Sustainability (S)

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.