

Civil Engineering, B.S. 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester (FALL)</b>				
1C		Communication		3
1A	ENGL 102	Accelerated College Writing		3
5A&5C/LD Major Prereq	PHYS 135	Phys. for Scientists and Engineers I		4
Area 2/LD Major Prereq	MATH 130	Calculus I	Precalculus	4
<b>Total:</b>				14
<b>Second Semester (SPRING)</b>				
LD Major/Second Comp	ENGR 200	Intro to Engineering And Design		3
3B		Humanities		3
LD Major Prereq	MATH 131	Calculus II	MATH 130	3
5B				3
LD Major Prereq	Physics 136	Phys. for Scientists and Engineers II	PHYS 135	4
<b>Total:</b>				16
<b>Third Semester (FALL)</b>				
LD Major	ENGR 220	Statics	PHYS 135	3
1B		Critical Thinking		3
5A&5C	CHEM 110	General Chemistry for Engineering		3
Area 6		Ethnic Studies		3
LD Major Prereq	MATH 230	Calculus III	MATH 131	3
<b>Total:</b>				15
<b>Fourth Semester (SPRING)</b>				
3A		Arts		3
Area 4/Code 1				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
<b>Total:</b>				15
<b>Fifth Semester (FALL)</b>				
UD-Area 5/Sustainability	PHYS 308	Sustainable Energy Systems	Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	3
Area 4/Code 2				3
UD Major	CIVE 319	Fluid Mechanics	PHYS 135	3
Free Elective				3
UD Major	CIVE 330	Strength of Materials	CIVE 206	3
<b>Total:</b>				15
<b>Sixth Semester (SPRING)</b>				
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-Area 3/Overlay/UWR			Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	3
UD Major	INDE 330	Engineering Statistics and Probability	MATH 130	3
<b>Total:</b>				17
<b>Seventh Semester (FALL)</b>				
UD-Area 4/Overlay			Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	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
<b>Total:</b>				16
<b>Eighth Semester (SPRING)</b>				
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
<b>Total:</b>				12
<b>Total Units:</b>				120

CSUEB General Breadth and Graduation Requirement Checklist	
<b>Area 1 (9 units): English Communication</b>	
<input type="checkbox"/>	1A - Lower Division English Composition
<input type="checkbox"/>	1B - Lower Division Critical Thinking and Composition
<input type="checkbox"/>	1C - Lower Division Oral Communication
<b>Area 2 (3 units): Mathematical Concepts and Quantitative Reasoning</b>	
<input type="checkbox"/>	Area 2 - Mathematical Concepts and Quantitative Reasoning
<b>Area 3 (6 units): Arts &amp; Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)</b>	
<input type="checkbox"/>	3A - Arts and Humanities (Arts)
<input type="checkbox"/>	3B - Arts and Humanities (Humanities)
<b>Area 4 (6 units): Social and Behavioral Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)</b>	
<input type="checkbox"/>	Area 4 - Lower Division Social and Behavioral Sciences
<input type="checkbox"/>	Area 4 - Lower Division Social and Behavioral Sciences
<b>Area 5 (7 units): Physical and Biological Sciences</b>	
<input type="checkbox"/>	5A - Lower Division Physical and Biological Sciences (Physical)
<input type="checkbox"/>	5B - Lower Division Physical and Biological Sciences (Biological)
<input type="checkbox"/>	5C - Lower Division Physical and Biological Sciences (Laboratory) -- May be embedded in 5A or 5B course, as long as 7 units met for lower-division Subject Area 5.
<b>Area 6 (3 units): Ethnic Studies</b>	
<input type="checkbox"/>	Area 6 - Ethnic Studies
<b>Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)</b>	
<input type="checkbox"/>	Second Composition
<b>University Writing Requirement (3-4 units)</b>	
<input type="checkbox"/>	UWR
<b>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 &amp; Local Government).</b>	
<input type="checkbox"/>	Code 1
<input type="checkbox"/>	Code 2
<b>Upper Division GE Requirements (9 units): Should be taken after completion of 1A, 1B, 1C, and Area 2 with a C- (CR)</b>	
<input type="checkbox"/>	UD- Area 3 - Upper Division Arts or Humanities
<input type="checkbox"/>	UD- Area 4 - Upper Division Social and Behavioral Sciences
<input type="checkbox"/>	UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning
<b>Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major</b>	
<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.