2011-13 Cal Poly Catalog		MATH 241 Calculus IV 4	
Civil & Environmental Engineering Department	<u>t</u>	MATH 244 Linear Analysis I 4	
BS CIVIL ENGINEERING		ME 211 Engineering Statics	
		ME 212 Engineering Dynamics	
		ME 302 Thermodynamics I	
\square 60 units upper division \square GWR		ME 341 Fluid Mechanics I	
\square 2.0 GPA \square USCP		PHYS 141 General Physics IA (Add'1 Area B)* 4	
* = Required in Support; also satisfies GE		PHYS 132, 133 General Physics II, III	
Note: No major or support courses may be taken as credit/no credit.		STAT 312 Statistical Methods for Engineers (B6)* 4	
MAJOR COURSES		^{2,4} Approved engineering science elective	
CE 111 Introduction to Civil Engineering	1	Select 3 units from:	
¹ CE 112 Design Principles in Civil Engineering	2	CSC 231, 234, 270, 341, 342;	
¹ CE 113 Computer-Aided Drafting in Civ Engr	2	EE 201; IME 314; MATH 206, 211, 304, 344	
⁶ CE 201 Mechanics of Materials (6) or CE 204, CE		82	
207 Mechanics of Materials I, II $(3)(\frac{3}{2})(12/1/15)$	5-6	GENERAL EDUCATION (GE)	
CE 321, 322 Fund Transportation Engr and Lab	3,2	72 units required, 32 of which are specified in Support. →See page 39 for complete GE course listing.	
⁵ CE 251 Numerical Methods in Civil Engineering	4	→Minimum of 8 units required at the 300 level.	
CE 259 Civil Engineering Materials	2	Area A Communication (8 units)	
CE 336 Water Resources Engineering	4	A1 Expository Writing 4	
CE 337 Hydraulics Laboratory	1	A2 Oral Communication 4	
CE 351 Structural Analysis <i>or</i> CE 352 (2/10/16)	4	A3 Reasoning, Argumentation, and Writing * 4	
CE 355 Reinforced Concrete Design	4	units in Support	
CE 356 Structural Steel Design	4	Area B Science and Mathematics (no addl units req'd)	
CE 381, 382 Geotechnical Engineering and Lab	4,1	B1 Mathematics/Statistics * 8 units in Support 0	
CE 466, 467 <i>or</i> CE 468, 469	3,3 24	B2 Life Science * 4 units in Support 0	
2,3 Technical electives	24	B3 Physical Science * 4 units in Support 0	
units from CE 371 or CM 371, any 400-500		B4 One lab taken with either a B2 or B3 course	
level CE and ENVE courses not required in the		B5 (not required for Engineering students)	
major, ENVE 325, and a maximum of 4 units		B6 Upper-division Area B * 4 units in Support 0	
from the following list: (5/21/13)		Additional Area B units * 8 units in Support 0	
ARCE 305, 372, 403;		Area C Arts and Humanities (16 units)	
BRAE 345, 447, 532;		C1 Literature 4	
CE/ME/BMED 404; CE 465 (4/11/15)		C2 Philosophy	
CHEM 318, 341;		¹ CE 114 substitutes for CE 112 and CE 113.	
CM 333, 364, 432, 454;		² Consultation with advisor is recommended prior to selecting technical	
CRP 420, 435; CRP/NR 404, 408, ERSC/GEOL 401, 402; GEOL 415;		electives or approved electives; bear in mind your selections may	
IME 314;		impact pursuit of post-baccalaureate studies and/or goals.	
MATE 425, 450;		³ Additional guidelines for technical electives:	
MATH 344;		a) More than 4 units of coursework outside CE/ENVE is only	
LA/NR 318;		permitted in special/unusual cases and requires written justification by	
SS 423, 442; SS/BIO/NR 421		the student, and approval by the Department Chair.	
(12/1/15)	73-74	b) No more than 4 combined units of CE 400, 500 and ENVE 400,	
SUPPORT COURSES		500 can count towards the degree require a course substitution form and no more than 4 total units are allowed. (10/15/15)	
BIO 213 and ENGR/BRAE 213 (B2)*	2,2	c) No more than 8 combined units of CE/ENVE 470, 471, 570, 571	
BRAE 239 Engineering Surveying	4	can be credited.	
CHEM 124 Gen Chem for Engineering (B3/B4)*	4	d) Co-op, graduate seminar, senior project/design, and thesis courses	
CHEM 125 Gen Chem for Engineering	4	are not permitted.	
ENGL 149 Technical Writing for Engineers (A3)*	4	e) Only one course can be credited for CE 458/558; 459/556.	
ENVE 331 Intro to Environmental Engineering	4	⁴ The courses selected to satisfy this requirement may not be used to	
GEOL 201 Physical Geology	3	satisfy other major, support, or general education requirements (no	
MATE 210 Materials Engineering	3	double counting of coursework).	
MATE 215 Materials Laboratory I	1	⁵ If CE 251 is taken for 2 units then an additional 2 units of Technical Electives is required. (6/7/13)	
MATH 141, 142 Calculus I, II (B1)*	4,4	⁶ If CE 207 is taken for 2 units than one additional unit of Technical	
MATH 143 Calculus III (Add'l Area B)*	4	Electives is required the department waives the third unit.	
		(7/30/15)(12/1/15)	

C2 Fine / Denfermine Auto	4
C3 Fine/Performing Arts	4
C4 Upper-division elective	4
Area D/E Society and the Individual (16 units)	
D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D4 Self Development (CSU Area E)	4
	40
FREE ELECTIVES	0
(12/1/15) 195 -	196