



**California State Polytechnic University, Pomona
Degree Curriculum Sheet**

Plan (Major) **CIVIL ENGINEERING**
Subplan/Option **Environmental Engineering**

Catalog Year **2014 - 2015**
Minimum Units Required **194**

Name _____
Student ID _____

Required Core Courses		
Course		Units
Civil Engineering CAD I & Lab	CE 127/127L	1/1
Civil Engineering CAD II Lab	CE 128L	1
Elementary Surveying & Lab	CE 134/134L	2/2
Civil Engineering Materials & Lab	CE 221/221L	2/1
Structural Analysis I	CE 304	4
Structural Analysis II	CE 305	4
Structural Design Lab	CE 305L	1
Structural Testing Lab	CE 306L	1
Geotechnical Engineering I	CE 325	2
Geotechnical Engineering II	CE 326	3
Geotechnical Engineering Lab	CE 327L	1
Hydraulic Engineering & Lab	CE 332/332L	3/1
Technical Communications and Documentation	CE 362/362A	2/1
Structural Design - Reinforced Concrete	CE 421	4
Engineering Hydrology	CE 451	4
Analytic Geometry and Calculus II	MAT 115	4
Analytic Geometry and Calculus III	MAT 116	4
Calculus of Several Variables I	MAT 214	3
Elem Linear Algebra and Differential Equations	MAT 224	4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength of Materials I	ME 218	3
Fluid Mechanics I	ME 311	3
Total Units		69

Required Subplan/Option Core Courses		
Course		Units
Intro to Civil Engineering	CE 122	1
Engineering Economics	CE 301	4
Computer Programming and Numerical Methods	CE 303/303A	2/1
Environmental Engineering & Lab	CE 351/351L	3/1
Water Treatment Engineering & Lab	CE 431/431L	3/1
Wastewater Treatment Engineering & Lab	CE 432/432L	3/1
Groundwater Mechanics, Solute Transport, Contamination and Remediation & Lab	CE 456/456L	3/1
Comprehensive Civil Engineering Design I	CE 491	1
Comprehensive Civil Engineering Design II	CE 492	2
Comprehensive Civil Engineering Design III	CE 493	1
Thermodynamics I	ME 301	4
Total Units		32

Required Support Courses		
Course		Units
The following required support courses should be taken to satisfy the indicated GE requirements to achieve the maximum units to degree listed at the top of this sheet.		
General Chemistry (B1)	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
General Chemistry and General Chemistry Lab	CHM 122/122L	3/1
Role of Design Professionals in Society (D4)	EGR 445	4
Engineering Geology I & Lab (B5)	GSC 321/321L	3/1
Ethical Considerations in Tech and App Sci (C4)	IME 402	4
Application of Statistics in Engineering or Statistical Methods in Engineering	IME 301	3
Analytic Geometry and Calculus I (B4)	STA 309	(3)
General Physics & Lab (B1, B3)	MAT 114	4
General Physics & Lab	PHY 131/131L	3/1
General Physics & Lab	PHY 132/132L	3/1
Total Units		35

Elective Subplan/Option Core Courses		
Course		Units
Technical Electives**	CE XXX	11
**Upper Division Civil Engineering Courses approved in advance by advisor.		
Total Units		11

General Education Requirements	
Area	Units
Area A Communication & Critical Thinking	12
1. Oral Communication	
2. Written Communication	
3. Critical Thinking	
Area B Mathematics & Natural Sciences	16
<i>Select at least one lab course from subarea 1 or 2.</i>	
1. Physical Science	
2. Biological Science	
3. Laboratory Activity	
4. Math/Quantitative Reasoning	
5. Science & Technology Synthesis	
Area C Humanities	16
1. Visual and Performing Arts	
2. Philosophy and Civilization	
3. Literature and Foreign Language	
4. Humanities Synthesis	
Area D Social Sciences	20
1. U.S. History, Constitution, American Ideals	
a. United States History	
b. Introduction to American Government	
2. History, Economics and Political Science	
3. Sociology, Anthropology, Ethnic & Gender Studies	
4. Social Science Synthesis	
Area E Lifelong Understanding & Self Development	4
Total Units	68

American Institutions	Units
Courses that satisfy this requirement may also satisfy GE Area D1	8

American Cultural Perspectives Requirement	Units
Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.