

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) <u>CIVI</u>	L ENGINEERING	
Subplan/Option	Geospatial Engineering	

Catalog Year 2015 - 2016

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
Elementary Linear Algebra and Diff 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 Support Courses		
Course		Units
The following required support courses should it the indicated GE Requirements to achieve the degree listed at the top of this sheet.	,	
General Chemistry & Lab (B3) California Land and Boundaries Law (D4) Ethical Considerations in Tech and Applied Sci (Interpretation of Statistics in Engineering or Statistical Methods in Engineering and the Physical Sciences Analytic Geometry and Calculus I (B4) General Physics & Lab (B1, B3) General Physics & Lab General Physics & Lab	CHM 121/121L EGR 322 C4) IME 402 GSC 321/321L IME 301 STA 309 MAT 114 PHY 131/131L PHY 132/132L PHY 133/133L	
	Total Units	35

General Education Requirments		IGE (G.E.	
Area	Units	Alternative)	
Area A Communication & Critical Thinking	12		
1. Oral Communication		IGE 120 4	
2. Written Communication		IGE 121 4	
3. Critical Thinking		IGE 122 4 IGE 220 4	
Area B Mathematics & Natural Sciences	16	IGE 220 4	
Select at least one lab course from subarea 1 or 2.	10	IGE 222 4	
1. Physical Science		IGE 223 4	
2. Biological Science		IGE 224 4	
3. Laboratory Activity		AREA A1 4 AREA A3 4	
Math/Quantitative Reasoning		AREA A3 4	
Science & Technology Synthesis		AREA C1, C2	
Area C Humanities		or C3 4	
7.1.04.0 1.14	16	AREA C4 4	
Visual and Performing Arts Philosophy and Civilination		AREA D4 4	
2. Philosophy and Civilization			
3. Literature and Foreign Language		Caa University	
4. Humanities Synthesis		See University Catalog for	
Area D Social Sciences	20	information on	
1. U.S. History, Constitution, American Ideals		how IGE meet	
a. United States History		GE require-	
b. Introduction to American Government		ments.	
2. History, Economics and Political Science			
3. Sociology, Anthropology, Ethnic & Gender Studies			
4. Social Science Synthesis			
Area E Lifelong Understanding & Self Development	4		
Total	68		

Required Subplan/Option Core Courses		
Course		Units
Advanced Surveying & Lab	CE 220/220L	3/1
Highway Engineering & Lab	CE 222/222L	2/2
Surveying Computations	CE 240	3
Geodesy and Satellite Surveying & Lab	CE 311/311L	3/1
Land Survey Descriptions	CE 313	4
Public Land Surveys	CE 331	3
Digital Mapping & Lab	CE 420/420L	3/1
Photogrammetry and Remote Sensing & Lab	CE 427/427L	3/1
Geospatial Engineering Seminar	CE 465	1
Subdivision Design & Lab	CE 482/482L	3/1
Geographical Information Systems & Lab	CE 484/484L	3/1
Comprehensive Civil Engineering Design I	CE 491	1
and Comprehensive Civil Engineering Design II	CE 492	2
and Comprehensive Civil Engineering Design III	CE 493	1
	Total Units	43

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

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

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.