

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Maior)	CIVIL	ENGINEE	RING

Subplan/Option <u>Geospatial Engineering</u>

Catalog Year 2011-2012 Name Evaluator GWT Satisfied Yes No

Required Core Courses		
Course		Units
Students in this major are expected to maintain a GPA of at least		
2.00 in all core courses.		
Civil Engineering CAD I	CE 127/127L	1/1
Civil Engineering CAD II	CE 128L	1/ 1
Elementary Surveying	CE 134/134L	2/2
Structural Analysis I	CE 304	4
Structural Analysis II	CE 305	4
Structural Testing Laboratory	CE 306L	1
Geotechnical Engineering I	CE 325	2
Geotechnical Engineering II	CE 326	3
Geotechnical Engineering Lab	CE 327L	1
Hydraulic Engineering	CE 332/332L	3/1
Technical Communication & Documentation	CE 362/362A	2/1
Structural Design - Reinforced Concrete	CE 421	4
Concrete Testing Lab	CE 422L	1
Water Supply Engineering	CE 431/431L	3/1
Engineering Hydrology	CE 451	4
Analytic Geometry/Calculus II	MAT 115	4
Analytic Geometry/Calculus III	MAT 116	4
Calculation of Several Variables I	MAT 214	3
Elementary Linear Algebra & Differential Equations	MAT 224	4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength Materials I	ME 218	3
Fluid Mechanics I	ME 311	3
	Total Units	70

Course		Units
Advanced Surveying	CE 220/220L	3/1
Highway Engineering	CE 222/222L	3/1
Surveying Computations	CE 240	3
Geodesy & Satellite Surveying	CE 311/311L	3/1
Land Survey Descriptions	CE 313	4
Public Land Surveys	CE 331	3
Digital Mapping	CE 420/420L	3/1
Photogrammetry	CE 427/427L	3/1
Comprehensive C.E. Design I, II, III	CE 491, 492, 493	4
Subdivision Deisgn/Lab	CE 482/482L	3/1
GIS in Engineering	CE 484/484L	3/1
	Total Units	42

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
General Chemistry	CHM 122/122L	3/1
Ethical Considerations in Technology an	nd	
Applied Science (C4)	EGR 402	4
California Land and Boundaries Law (D4	4) EGR 322	4
Engineering Geology (B5)	GSC 321/321L	3/1
Application of Statistics in Engineering	IME 301	3
or Statistical Methods	STA 309	
Analytic Geometry and Calculus I (B4)	MAT 114	4
General Physics (B1, B3)	PHY 131/131L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
	Total Units	39

General Education Requirements			IGE (G.E.	
Area	•	Units	Alternativ	ve)
Area A	Communication & Critical Thinking	12	IGF 120	
1	Oral Communication		IGE 120	_
2	Written Communication		IGE 121	
3	Critical Thinking		IGE 122	
Area B	Mathematics & Natural Sciences	16	IGE 220	
Select a	t least one lab course from sub-area 1 or 2.		IGE 221	
1	Physical Science		IGE 222	2
2	Biological Science		IGF 224	
3	Laboratory Activity		Area A1	_
4	Math/Quantitative Reasoning		Area A3	
5	Science & Technology Synthesis		Area B	1
Area C	Humanities	16	Area C1, C	
1	Visual and Performing Arts		or C3	
2	Philosophy and Civilization		Area C4	
3	Literature and Foreign Language		Area D4	
4	Humanities Synthesis		AICG DT	
Area D	Social Sciences	20	See Univer	city
1	U.S. History, Constitution, American Ideals		Catalog for	,
2	History, Economics and Political Science		information	
3	Sociology, Anthropology, Ethnic & Gender Studies		how IGE m	
4	Social Science Synthesis		G.E. require	
Area E	Lifelong Understanding & Self Development	4	ments.	,
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	Total Units	68		

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area	8
D1	.

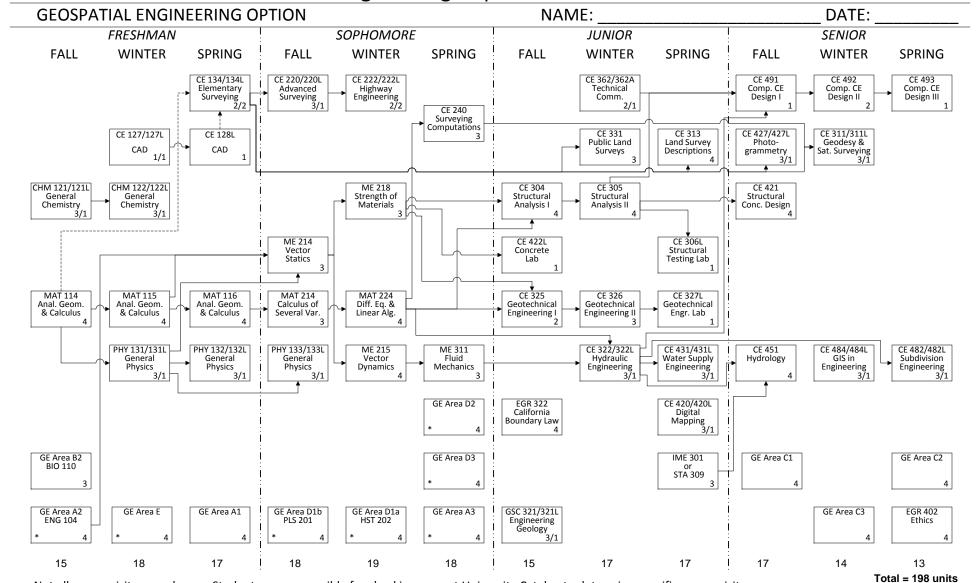
American Cultural Perspectives Requirement	
Refer to catalog for list of courses that satisfy this requirement	ts. 4
Course may also satisfy major, minor, GE, or unrestricted elect	ive
requirements.	

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

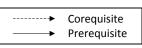
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Course		GE Area
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
Analytic Geometry/Calculus I	MAT 114	B4
Engineering Geology	GSC 321/L	B5
Ethical Considerations in Tech. & Applied Science	EGR 402	C4
California Land and Boundaries Law	EGR 322	D4
The remaining GE requirements may be satisfied by any course approved for that area.		

California State Polytechnic University, Pomona Civil Engineering Department Curriculum

2011-2012



Not all prerequisites are shown. Students are responsible for checking current University Catalog to determine specific prerequisites.



^{*} IGE sequence replaces these courses plus two of GE Areas C1, C2, and C3. See University Catalog for details.