Plan (Major) CIVIL ENGINEERING

Subplan/Option	Geospatial	Engine

eering

 Catalog Year	201
Minimum Units Re	equired

Name_ Student ID

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

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Required Core Courses		
Course		Units
Civil Engineering CAD I	CE 127/127L	1/1
Civil Engineering CAD II	CE 128L	1
Elementary Surveying	CE 134/134L	2/2
Civil Engineering Materials	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	CE 332/332L	3/1
Technical Communication & Documentation	CE 362/362A	2/1
Structural Design - Reinforced Concrete	CE 421	4
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	69

Required Subplan/Option Core Courses		
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 & Remote Sensing	CE 427/427L	3/1
Geospatial Engineering Seminar	CE 465	1
Subdivision Deisgn/Lab	CE 482/482L	3/1
Geographical Information Systems	CE 484/484L	3/1
Comprehensive C.E. Design I, II, III CE 4	91, 492, 493	4
	Total Units	43

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	d	
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

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General Education Requirements		IGE (G.E.		
Area		Units	Alternativ	/e)
Area A	Communication & Critical Thinking	12	IGF 120	4
1	Oral Communication		IGE 120	4
2	Written Communication		IGE 121	4
3	Critical Thinking		IGE 220	4
Area B	Mathematics & Natural Sciences	16	IGE 220	4
Select a	t least one lab course from sub-area 1 or 2.		IGE 221	4
1	Physical Science		IGE 222	4
2	Biological Science		IGE 223	4
3	Laboratory Activity		Area A1	4
4	Math/Quantitative Reasoning		Area A3	4
5	Science & Technology Synthesis		Area B	16
Area C	Humanities	16	Area C1, C2	
1	Visual and Performing Arts		or C3	4
2	Philosophy and Civilization		Area C4	4
3	Literature and Foreign Language		Area D4	4
4	Humanities Synthesis		Alea D4	4
Area D	Social Sciences	20	See Univer:	aitu
1	U.S. History, Constitution, American Ideals			'
2	History, Economics and Political Science		Catalog for information	
3	Sociology, Anthropology, Ethnic & Gender Studies			
4	Social Science Synthesis		how IGE m	0010
	Lifelong Understanding & Self Development	4	G.E. require	} -
			ments.	
-	Tatal Iluita	/0		
	Total Units	68		

TGA_

GWT Satisfied

Yes

No

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 requirements. 4 Course may also satisfy major, minor, GE, or unrestricted elective 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. -05.4

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.		

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

California State Polytechnic University, Pomona Civil Engineering Department Curriculum

2013-2014

