



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

Plan (Major) CIVIL ENGINEERING  
Subplan/Option General Civil Engineering

Catalog Year 2012-2013 Name \_\_\_\_\_  
Minimum Units Required 198 Student ID \_\_\_\_\_

TGA \_\_\_\_\_  
GWT Satisfied Yes No

Required Core Courses		
Course		Units
Civil Engineering CAD I	CE 127/127L	1/1
Civil Engineering CAD II Lab	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
Calculus 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 of Materials I	ME 218	3
Fluid Mechanics I	ME 311	3
<b>Total Units</b>		<b>69</b>

Required Subplan/Option Core Courses		
Course		Units
Introduction to Civil Engineering	CE 122	1
Advanced Surveying	CE 220/220L	3/1
Highway Engineering	CE 222/222L	3/1
Transportation Engineering	CE 223/223L	3/1
Engineering Economics	CE 301	4
Computer Programming & Numerical Methods	CE 303/303A	2/1
Structural Design-Steel	CE 406	4
Water Treatment Engineering	CE 431/431L	3/1
Comprehensive C.E. Design I, II, III	CE 491, 492, 493	4
<b>Total Units</b>		<b>32</b>

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 and Applied Science (C4)	EGR 402	4
Roles of Design Professionals (D4)	EGR 445	4
Engineering Geology (B5)	GSC 321/321L	3/1
Application of Statistics in Engineering or Statistical Methods	IME 301	3
Analytic Geometry/Calculus I (B4)	STA 309	(3)
	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
<b>Total Units</b>		<b>39</b>

Elective Subplan/Option Core Courses		
Course		Units
Technical Electives**	CE XXX	11
<b>Total Units</b>		<b>11</b>

\*\*Upper Division Civil Engineering Courses approved in advance by advisor.

General Education Requirements		IGE (G.E. Alternative)
Area	Units	
<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>	IGE 120 4 IGE 121 4 IGE 122 4 IGE 220 4
1 Oral Communication		
2 Written Communication		
3 Critical Thinking		
<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>	IGE 221 4 IGE 222 4 IGE 223 4 IGE 224 4
<i>Select at least one lab course from sub-area 1 or 2.</i>		
1 Physical Science		Area A1 4
2 Biological Science		Area A3 4
3 Laboratory Activity		Area B 16
4 Math/Quantitative Reasoning		Area C1, C2 4 or C3 4
5 Science & Technology Synthesis		Area C4 4 Area D4 4
<b>Area C Humanities</b>	<b>16</b>	See University Catalog for information on how IGE meets G.E. requirements.
1 Visual and Performing Arts		
2 Philosophy and Civilization		
3 Literature and Foreign Language		
4 Humanities Synthesis		
<b>Area D Social Sciences</b>	<b>20</b>	
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
<b>Area E Lifelong Understanding &amp; Self Development</b>	<b>4</b>	
<b>Total Units</b>	<b>68</b>	

<b>American Institutions</b> Courses that satisfy this requirement may also satisfy G.E. Area D1	8
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<b>American Cultural Perspectives Requirement</b> Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4
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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.

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 321/321L B5
Ethical Cons. in Tech. & Appl. Science	EGR 402 C4
Roles of Design Professionals	EGR 445 D4

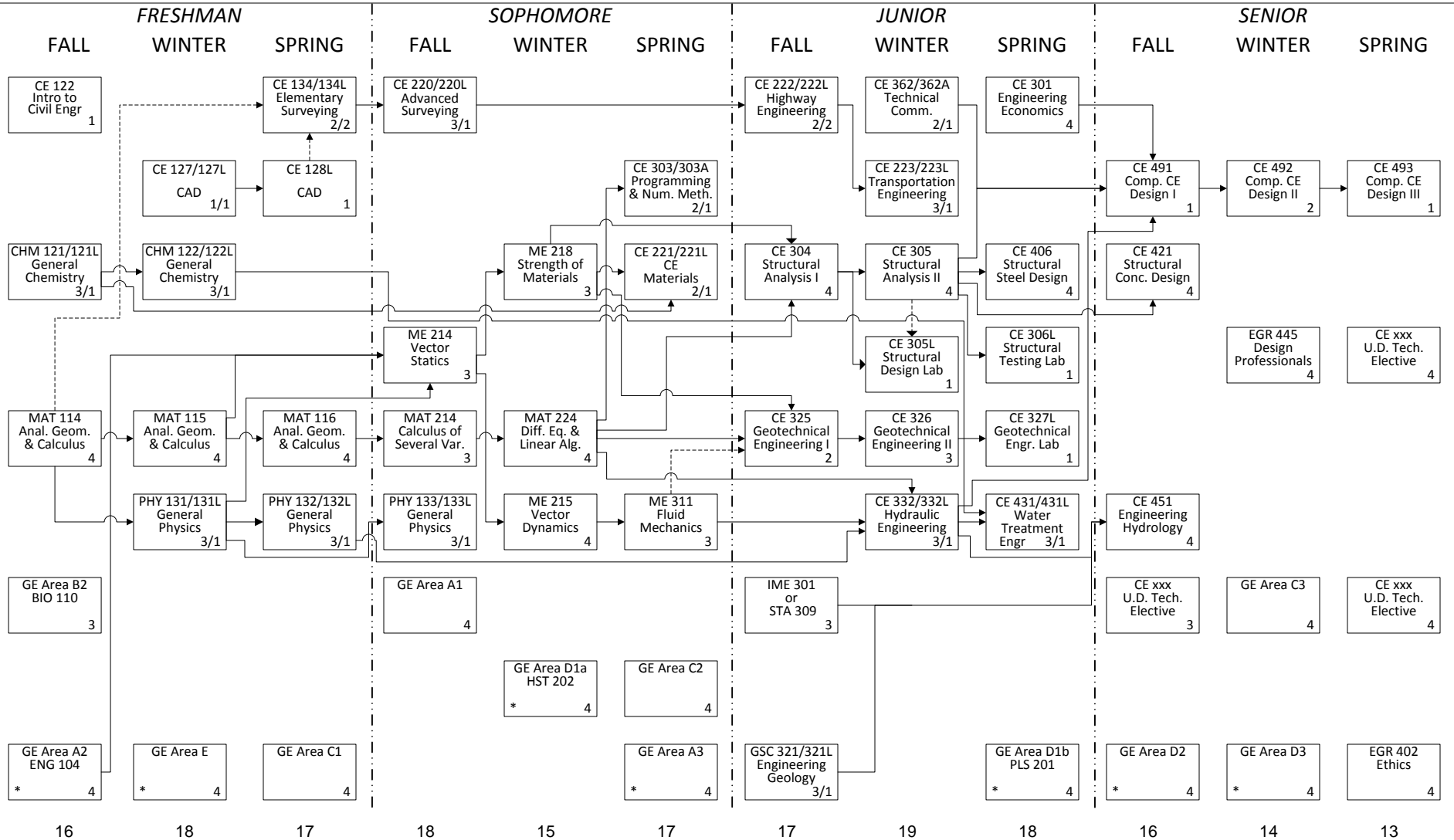
The remaining GE requirements may be satisfied by any course approved for that area.

# California State Polytechnic University, Pomona Civil Engineering Department Curriculum

2012-2013

## GENERAL CIVIL ENGINEERING OPTION

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_



**Total = 198 units**

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.

