



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

Plan (Major) CIVIL ENGINEERING  
Subplan/Option Environmental Engineering

Catalog Year 2009-2010 Name \_\_\_\_\_  
Minimum Units Required 198 Student ID \_\_\_\_\_

Evaluator \_\_\_\_\_  
GWT Satisfied \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_

Required Core Courses		
Course		Units
<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>		
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
Structural Analysis I	CE 304	4
Structural Analysis II	CE 305	4
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	CE 362/362A	2/1
Structural Design - Reinforced Concrete	CE 421	4
Concrete Design Lab	CE 422L	1
Water Supply Engineering	CE 431/431L	3/1
Engineering Hydrology	CE 451	4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength of Materials	ME 218	3
Fluid Mechanics	ME 311	3
<b>Total Units</b>		<b>55</b>

Required Subplan/Option Courses		
Course		Units
Thermodynamics I	ME 301	4
Introduction to Civil Engineering	CE 122	1
Computer Programming & Numerical Method	CE 303/303A	2/1
Environmental Resource Management/Lab	CE 351/351L	3/1
Structural Design - Steel	CE 406	4
Water Quality Engineering	CE 432/432L	3/1
Industrial & Hazardous Waste Management	CE 434/434L	3/1
Solid Waste Management	CE 457	3
Design Project	CE 491, 492, 493	4
Engineering Economics	CE 301	4
Groundwater	CE 456/456L	3/1
<b>Total Units</b>		<b>39</b>

Elective Subplan/Option Courses		
Course		Units
Technical Electives**	CE XXX	3
**Upper Division Civil Engineering Courses approved in advance by advisor.		
<b>Total Units</b>		<b>3</b>

Required Support Courses		
Course		Units
General Chemistry/Lab (B1, B3)	CHM 121/CHM 121L	3/1
General Chemistry/Lab	CHM 122/122L	3/1
Analytic Geometry/Calculus I (B4)	MAT 114	4
Analytic Geometry/Calculus II	MAT 115	4
Analytic Geometry/Calculus III	MAT 116	4
Calculus of Several Variables I	MAT 214	3
Linear Algebra & Differential Equations	MAT 224	4
General Physics/Lab (B1, B3)	PHY 131/131L	3/1
General Physics/Lab	PHY 132/132L	3/1
General Physics/Lab	PHY 133/133L	3/1
Statistical Methods	IME 301	3
or	STA 309	(3)
Engineering Geology (B5)	GSC 321/GSC 321L	3/1
Ethical Considerations in Technology and Applied Science (C4)	EGR 402	4
Roles of Design Professionals (D4)	EGR/BUS 445	4
<b>Total Units</b>		<b>54</b>

General Education Requirements		Units	IGE (G.E. Alternative)
<b>Area A Communication &amp; Critical Thinking</b>		<b>12</b>	
1 Oral Communication			IGE 120 4
2 Written Communication			IGE 121 4
3 Critical Thinking			IGE 122 4
<b>Area B Mathematics &amp; Natural Sciences</b>		<b>16</b>	
<i>Select at least one lab course from sub-area 1 or 2.</i>			
1 Physical Science			IGE 220 4
2 Biological Science			IGE 221 4
3 Laboratory Activity			IGE 222 4
4 Math/Quantitative Reasoning			IGE 223 4
5 Science & Technology Synthesis			IGE 224 4
<b>Area C Humanities</b>		<b>16</b>	
1 Visual and Performing Arts			Area A2 4
2 Philosophy and Civilization			Area A3 4
3 Literature and Foreign Language			Area B 16
4 Humanities Synthesis			Area C1, C2 or C3 4
<b>Area D Social Sciences</b>		<b>20</b>	
1 U.S. History, Constitution, American Ideals			Area C4 4
2 History, Economics and Political Science			Area D4 4
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>	See University Catalog for information on how IGE meets G.E. requirements.

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

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

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/Lab	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
Analytic Geometry/Calculus I	MAT 114	B4
Engineering Geology/Lab	GSC 321/321L	B5
Ethical Cons. in Tech. & Appl. Science	EGR 402	C4
Roles of Design Professionals	EGR/BUS 445	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.

**Civil Engineering Department  
Environmental Engineering Option  
Curriculum Year: 2009-2010**

*Your department has developed this road plan, taking into account prerequisites and schedule restrictions.  
You should pay attention to these concerns when deviating from this plan.*

Year 1	Fall	Units	Winter	Units	Spring	Units	Comments
	<b>CE122</b> Major Core	1	<b>CE128L</b> Major Core	1	<b>CE 134/134L</b> Major Core	4	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.  MAT 114, PHY 131/131L and CHM121L satisfy both major and general education requirements</i>
	<b>CE127/127L</b> Major Core	2	<b>CHM 122/122L</b> Major Support	4	<b>MAT 116</b> Major Support	4	
	<b>CHM 121</b> Major Support	3	<b>MAT 115</b> Major Support	4	<b>PHY 132/132L</b> Major Support	4	
	<b>CHM 121L</b> GE Area B2	1	<b>PHY 131/131L</b> GE Area B2	4	<b>GE Area C1</b> Any approved course in area C1	4	
	<b>MAT 114</b> GE Area B1	4	<b>GE Area E</b> Any approved course in area E	4			
	<b>GE Area A1</b> GE Area A1	4					
	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>16</b>	
<b>Total Units for Year</b>						<b>48</b>	

Year 2	Fall	Units	Winter	Units	Spring	Units	Comments
	<b>CE351/351L</b> Major Core	4	<b>GE Area D1b</b> Any approved course in area D1b	4	<b>GE Area A3</b> Any approved course in area A3	4	<i>Upper division CE courses must be approved in advance by your advisor.  One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.</i>
	<b>ME214</b> Major Core	3	<b>ME218</b> Major Core	3	<b>CE303/303A</b> Major Core	3	
	<b>MAT 214</b> Major Support	3	<b>ME215</b> Major Core	4	<b>GE Area B2</b> Any approved course in area B2	3	
	<b>PHY 133/133L</b> Major Support	4	<b>ENG 104</b> <b>GE Area A2</b>	4	<b>CE311</b> Major Core	3	
	<b>GE Area C2</b> Any approved course in area C2	4	<b>MAT 224</b> Major Support	4	<b>GE Area D1a</b> Any approved course in area D1a	4	
	<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>19</b>	<b>Total Units</b>	<b>17</b>	
<b>Total Units for Year</b>						<b>54</b>	

Year 3	Fall	Units	Winter	Units	Spring	Units	Comments
	<b>CE304</b> Major Core	4	<b>CE362/362A</b> Major Core	3	<b>CE 301</b> Major Core	4	
	<b>GE Area D2</b> Any approved course in area D2	4	<b>CE305</b> Major Core	4	<b>CE406</b> Major Core	4	
	<b>CE325</b> Major Core	2	<b>CE326</b> Major Core	3	<b>CE306L</b> Major Core	1	
	<b>CE332/332L</b> Major Core	4	<b>CE431/431L</b> Major Core	4	<b>CE327L</b> Major Core	1	
	<b>IME 301 or STA 309</b> Major Support	3	<b>GE Area D3</b> Any approved course in area D3	4	<b>CE432/CE432L</b> Major Core	4	
					<b>ME301</b> Major Core	4	
	Take the Graduate Writing Test						
	<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>18</b>	
<b>Total Units for Year</b>					<b>53</b>		

Year 4	Fall	Units	Winter	Units	Spring	Units	Comments
	<b>CE491</b> Major Core	1	<b>CE492</b> Major Core	2	<b>CE 493</b> Major Core	1	<i>All GE Area A courses and all lower division GE courses in a GE area must be completed before taking the GE synthesis course in that area.</i>
	<b>CE421</b> Major Core	4	<b>EGR 445</b> GE Area D4	4	<b>CE456/456L</b> Major Core	4	
	<b>CE434/434L</b> Major Core	4	<b>CExxx</b> Major Core	4	<b>CE457</b> Major Core	3	
	<b>CE451</b> Major Core	4	<b>EGR 402</b> GE Area C4	4	<b>GSC321/321L</b> GE Area B4	4	
	<b>GE Area C3</b> Any approved course in area C3	4					
	<b>CE 422L</b> Major Core	1					
				Request a graduation check	File an application for graduation		
	<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>12</b>	

<b>Total Units for Year</b>	<b>44</b>	
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<b>Total Units on Plan</b>	<b>199</b>	
<b>Major Core Units</b>	<b>97</b>	
<b>Major Support Units</b>	<b>33</b>	
<b>General Education Units</b>	<b>68</b>	
<b>Unrestricted Elective Units</b>	<b>0</b>	

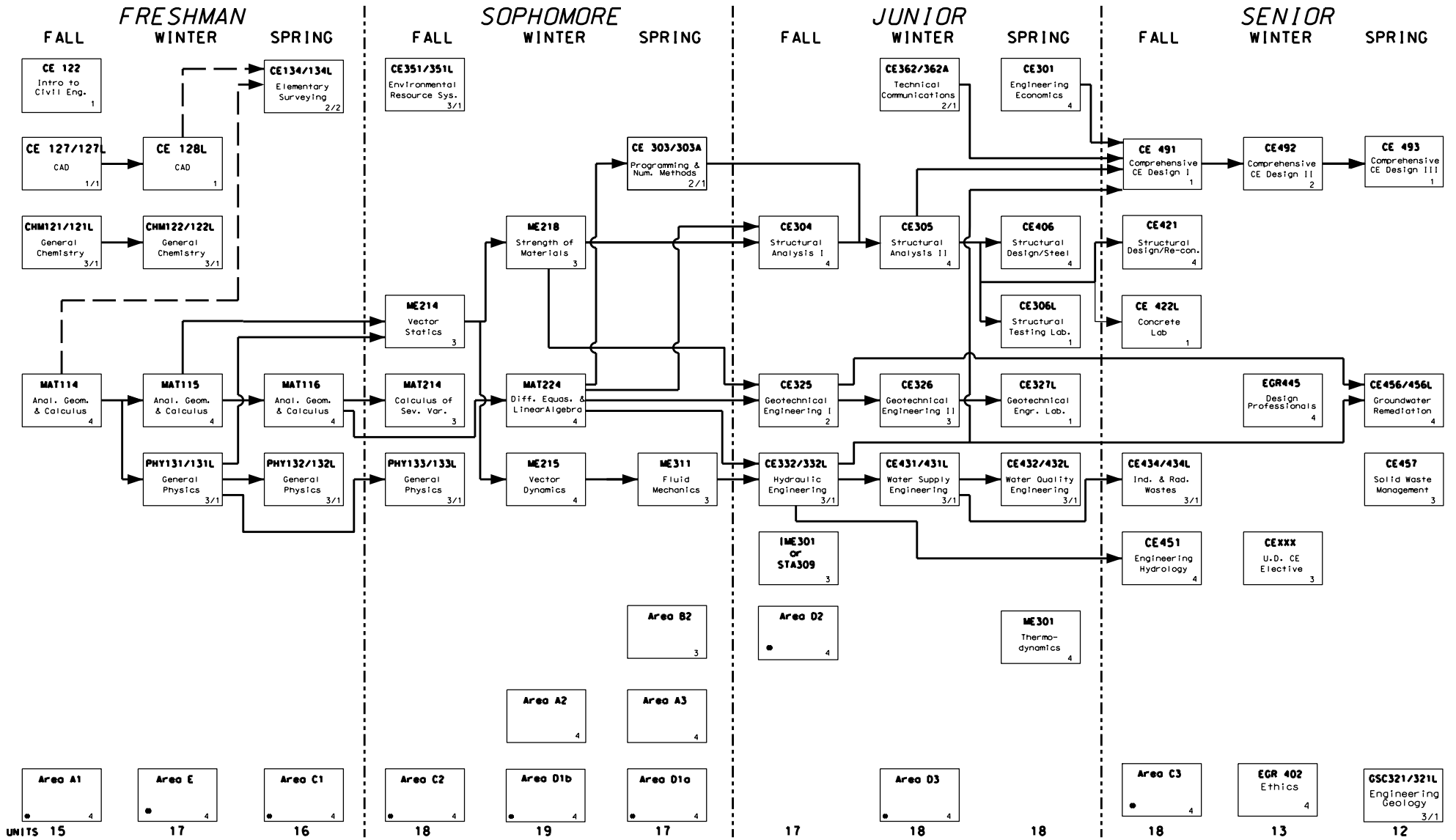
# CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

## CIVIL ENGINEERING DEPARTMENT CURRICULUM

AY  
2009/2010

### ENVIRONMENTAL ENGINEERING OPTION

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



Students are responsible for prerequisites. Refer to the current University Catalog. Some prerequisites are not shown on this chart

\* Qualified students may substitute IGE sequence plus one Area C1, C2, or C3 course for courses marked with asterisk.

See University Catalog for more details. --- means corequisite.

**TOTAL = 198**

Revision 12/08/08