



**California State Polytechnic University, Pomona  
DEGREE REQUIREMENT EVALUATION**

ELM Satisfied	___ Yes ___ No
EPT Satisfied	___ Yes ___ No
GWT Satisfied	___ Yes ___ No

MAJOR (PLAN) **CIVIL ENGINEERING**  
 OPTION/EMPHASIS (SUB-PLAN) **Environmental Engineering**  
 UNITS REQUIRED FOR A BACHELOR'S DEGREE **198**

NAME \_\_\_\_\_  
 LAST FIRST MI  
 STUDENT I.D. # \_\_\_\_\_

TERM ADMITTED \_\_\_\_\_ YEAR: **2006-2007**  
 EVALUATOR \_\_\_\_\_  
 DATE \_\_\_\_\_  
 UPDATES \_\_\_\_\_

CORE COURSES	Units	SUPPORT COURSES	Units	IGE	GENERAL EDUCATION. Students may fulfill these requirements at Cal Poly Pomona with the General Education (GE) or the Interdisciplinary General Education (IGE) Programs. Select courses from approved lists shown in the Schedule of Classes unless specified.																																																
<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>					<table border="1"> <tr> <th>GENERAL EDUCATION COURSES</th> <th>Units</th> </tr> <tr> <td><b>Area A Communication &amp; Critical Thinking</b></td> <td><b>12</b></td> </tr> <tr> <td>1 Written Communication</td> <td></td> </tr> <tr> <td>2 Oral Communication</td> <td></td> </tr> <tr> <td>3 Critical Thinking</td> <td></td> </tr> <tr> <td><b>Area B Mathematics &amp; Natural Sciences</b></td> <td><b>16</b></td> </tr> <tr> <td>1 Math/Quantitative Reasoning</td> <td></td> </tr> <tr> <td>2 Physical Science</td> <td></td> </tr> <tr> <td>3 Biological Science</td> <td></td> </tr> <tr> <td>4 Science &amp; Technology Synthesis</td> <td></td> </tr> <tr> <td><b>Area C Humanities</b></td> <td><b>16</b></td> </tr> <tr> <td>1 Fine and Performing Arts</td> <td></td> </tr> <tr> <td>2 Philosophy and Civilization</td> <td></td> </tr> <tr> <td>3 Literature and Foreign Language</td> <td></td> </tr> <tr> <td>4 Humanities Synthesis</td> <td></td> </tr> <tr> <td><b>Area D Social Sciences</b></td> <td><b>20</b></td> </tr> <tr> <td>1 U.S. History, Constitution, American Ideals:</td> <td></td> </tr> <tr> <td>    a. Political Science</td> <td></td> </tr> <tr> <td>    b. U.S. History</td> <td></td> </tr> <tr> <td>2 History, Economics and Political Science</td> <td></td> </tr> <tr> <td>3 Sociology, Anthropology, Ethnic &amp; Gender Studies</td> <td></td> </tr> <tr> <td>4 Social Science Synthesis</td> <td></td> </tr> <tr> <td><b>Area E Lifelong Understanding &amp; Self Development</b></td> <td><b>4</b></td> </tr> <tr> <td>Lifelong Understanding</td> <td></td> </tr> </table>	GENERAL EDUCATION COURSES	Units	<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>	1 Written Communication		2 Oral Communication		3 Critical Thinking		<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>	1 Math/Quantitative Reasoning		2 Physical Science		3 Biological Science		4 Science & Technology Synthesis		<b>Area C Humanities</b>	<b>16</b>	1 Fine 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:		a. Political Science		b. U.S. History		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>	Lifelong Understanding	
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Civil Engineering CAD I	CE 127/L 2	General Chemistry	CHM 121/L 4	IGE 120 4																																																	
Civil Engineering CAD II	CE 128/L 1	General Chemistry	CHM 122/L 4	IGE 121 4																																																	
Elementary Surveying	CE 134/L 4	Analytic Geometry/Calculus II	MAT 115 4	IGE 122 4																																																	
Structural Analysis I	CE 304 4	Analytic Geometry/Calculus III	MAT 116 4	IGE 220 4																																																	
Structural Analysis II	CE 305 4	Calculus of Several Variables I	MAT 214 3	IGE 221 4																																																	
Structural Testing Lab	CE 306/L 1	Linear Algebra & Differential Equations	MAT 224 4	IGE 222 4																																																	
Geotechnical Engineering I	CE 325 2	General Physics	PHY 132 3	IGE 223 4																																																	
Geotechnical Engineering II	CE 326 3	General Physics	PHY 133/L 4	IGE 224 4																																																	
Geotechnical Engineering Lab	CE 327/L 1	Statistical Methods	IME 301 3	COM 204 4																																																	
Hydraulic Engineering	CE 332/L 4		or STA 309 3	CE 301 4																																																	
Technical Communication	CE 362/A 3	<u>SUPPORT AND DIRECTED ELECTIVES</u>			ENG 105 4																																																
Structural Design - Reinforced Concrete	CE 421 4	Freshman English I* (A1)	ENG 104 4	Area B 16																																																	
Concrete Design Lab	CE 422/L 1	Freshman English II* (A3)	ENG 105 4	Area C4 4																																																	
Water Supply Engineering	CE 431/L 4	Calculus I* (B1)	MAT 114 5	Area D4 4																																																	
Engineering Hydrology	CE 451 4	General Physics* (B2)	PHY 131/L, PHY 132/L 5																																																		
Vector Statics	ME 214 3	Engineering Geology* (B4)	GSC 321/L 4																																																		
Vector Dynamics	ME 215 4	Ethical Cons. in Tech. & Appl. Science* (C4)	EGR 402 4																																																		
Strength of Materials	ME 218 3	American Government* (D1)	PLS 201 4																																																		
Fluid Mechanics	ME 311 3	United States History* (D1b)	HST 202 4																																																		
<u>REQUIRED OPTION COURSES</u>		Engineering Economics* (D2)	CE 301 4																																																		
Aquatic Ecology	BIO 305 4	Roles of Design Professionals* (D4)	EGR/BUS 445 4																																																		
Introduction to Civil Engineering	CE 122 1																																																				
Computer Programming & Numerical Method	CE 303/A 3																																																				
Environmental Resource Management/Lab	CE 351/L 4																																																				
Structural Design - Steel	CE 406 4																																																				
Water Quality Engineering	CE 432/L 4																																																				
Industrial & Hazardous Waste Management	CE 434/L 4																																																				
Solid Waste Management	CE 457 3																																																				
Design Project	CE 491, 492, 493 4																																																				
Technical Electives**	CE XXX 3																																																				
Thermodynamics	ME 301 4																																																				
Groundwater	CE 456/L 4																																																				
<p>**Upper Division Civil Engineering Courses approved in advance by advisor.</p>																																																					
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<p>Courses marked with an * may be used to satisfy GE requirements. If these courses are not used to satisfy GE, the total units may be more than 198 units.</p>																																																					

NOT MORE THAN 105 UNITS FROM A COMMUNITY COLLEGE NOR MORE THAN 36 UNITS OF EXTENSION WORK MAY BE APPLIED TOWARD A BACHELOR'S DEGREE.  
 A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR.

**Civil Engineering Department  
Environmental Engineering Major  
Curriculum Year: 2006-2007**

*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.*

	Fall	Units	Winter	Units	Spring	Units	Comment
<b>Year 1</b>	<b>CE 122</b> Major Core	1	<b>PHY 132</b> Major Support	3	<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 PHY 132L satisfy both major and general education requirements</i>
	<b>CE 127/127L</b> Major Core	3	<b>CHM 122/122L</b> Major Support	4	<b>MAT 116</b> Major Support	4	
	<b>CHM 121/121L</b> Major Support	4	<b>MAT 115</b> Major Support	4	<b>ENG 105</b> GE Area A3	4	
	<b>MAT 114</b> GE Area B1	4	<b>PHY 131/131L</b> GE Area B2	4	<b>PHY 132L</b> GE Area B2	1	
	<b>ENG 104</b> GE Area A1	4			<b>HST 202</b> GE Area D1	4	
	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>17</b>	
<b>Year 2</b>	<b>ME 214</b> Major Core	3	<b>ME 218</b> Major Core	3	<b>CE 303/A</b> Major Core	3	<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>MAT 214</b> Major Support	3	<b>MAT 216</b> Major Support	4	<b>ME 215</b> Major Core	4	
	<b>PHY 133/133L</b> Major Support	4	<b>COM 204</b> GE Area A2	4	<b>CE 332/332L</b> Major Core	4	
	<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	<b>PLS 201</b> GE Area D1	4	
	<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>	
<b>Year 3</b>							
	<b>CE 304</b> Major Core	4	<b>CE 362/362A</b> Major Core	3	<b>CE 301</b> GE Area D2	4	

<b>CE 325</b> Major Core	2	<b>CE 305</b> Major Core	4	<b>CE 306L</b> Major Core	1	
<b>ME 311</b> Major Core	3	<b>BIO 305</b> Major Core	4	<b>CE 327L</b> Major Core	1	
<b>IME 301 or STA 309</b> Major Support	3	<b>CE 332/332L</b> Major Core	4	<b>CE 406</b> Major Core	4	
<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	<b>CE 326</b> Major Core	3	<b>CE 431/431L</b> Major Core	4	
		<b>GSC 321/321L</b> GE Area B4	4	<b>CE XXX</b> Major Core	3	
<i>Take the Graduation Writing Test</i>						
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>22</b>	<b>Total Units</b>	<b>17</b>	
<b>Total Units for Year</b>					<b>55</b>	

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>CE 421/422L</b> Major Core	5	<b>CE 451/451L</b> Major Core	4	<b>CE 327L</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>CE 491,492,493</b> Major Core	4	<b>CE 457</b> Major Core	3	<b>CE 434/434L</b> Major Core	4	
	<b>CE 432/432L</b> Major Core	4	<b>ME 301</b> Major Core	4	<b>EGR/BUS 445</b> GE Area D4	4	
	<b>CE 351/351L</b> Major Core	4	<b>CE 456/456L</b> Major Core	4	<b>EGR 402</b> GE Area C4	4	
	<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3, or E	4	
			<i>Request a graduation check</i>		<i>File an application to graduate</i>		
<b>Total Units</b>	<b>21</b>	<b>Total Units</b>	<b>19</b>	<b>Total Units</b>	<b>17</b>		
<b>Total Units for Year</b>					<b>57</b>		

<b>Total Units on Plan</b>	<b>198</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>	

