



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

Plan (Major) CIVIL ENGINEERING
Subplan/Option General Civil 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 I/LabI	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/Lab	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/Lab	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
Total Units		55

Required Subplan/Option Courses		
Course		Units
Introduction to Civil Engineering	CE 122	1
Advanced Surveying/Lab	CE 220/220L	3/1
Highway Engineering/Lab	CE 222/222L	3/1
Transportation Engineering/Lab	CE 223/223L	3/1
Computer Programming & Numerical Methods	CE 303/303A	2/1
Structural Design-Steel	CE 406	4
Structural Design-Timber/Lab	CE 433/433L	2/1
Design Project	CE 491, 492, 493	4
Engineering Economics	CE 301	4
Total Units		31

Elective Subplan/Option Courses		
Course		Units
Technical Electives**	CE XXX	11
Total Units		11

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

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B1, B3)	CHM 121L	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
Engineering Geology/Lab (B5)	GSC 321/321L	3/1
Statistical Methods	IME 301	3
or	STA 309	(3)
Ethical Considerations in Technology and Applied Science (C4)	EGR 402	4
Roles of Design Professionals (D4)	EGR/BUS 445	4
Total Units		54

General Education Requirements		IGE (G.E. Alternative)
Area	Units	
Area A Communication & Critical Thinking	12	IGE 120 4 IGE 121 4 IGE 122 4 IGE 220 4
1 Oral Communication		
2 Written Communication		
3 Critical Thinking		
Area B Mathematics & Natural Sciences	16	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 A2 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
Area C Humanities	16	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		
Area D Social Sciences	20	
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
Area E Lifelong Understanding & Self Development	4	
Total Units	68	

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 requirement. 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.

**Civil Engineering Department
General Civil Engineering Major
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.*

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 1	CE 122 Major Core	1	Area E Any approved course in Area E	4	CE 134/134L 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>
	CE 127/127L Major Core	2	CHM 122/122L Major Support	4	MAT 116 Major Support	4	
	CHM 121 GE Area B1, B3	3	MAT 115 Major Support	4	PHY 132/132L Major Support	4	
	CHM 121L GE Area B1, B3	1	PHY 131/131L GE Area B2	4	GE Area C1 Any approved course in area C1	4	
	MAT 114 GE Area B1	4					
	GE Area A1 Any approved course in GE Area A1	4	CE 128L Major Core	1			
	Total Units	15	Total Units	17	Total Units	16	
	Total Units for Year					48	
Year 2	CE 220/220L Major Core	4	CE 222/222L Major Core	4	CE 223/223L Major Core	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>
	ME 214 Major Core	3	ME 218 Major Core	3	CE 303/303A Major Core	3	
	MAT 214 Major Support	3	ME 215 Major Support	4	GE Area A3 Any approved course in area A3	4	
	PHY 133/133L Major Support	4	MAT 224 Major Support	4	CE 311 Major Core	3	

ENG 104 GE Area A2	4	GE Area D1a Any approved course in area D1a	4	GE Area B2 Any approved course in area B2	3	
Total Units		Total Units		Total Units		
18		19		17		
Total Units for Year						54

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	CE 304 Major Core	4	CE 362/362A Major Core	3	CE 301 Major Core	4	
	CE 325 Major Core	2	CE 305 Major Core	4	CE 306L Major Core	1	
	CE 332/332L Major Core	4	CE 433/433L Major Core	3	CE 327L Major Core	1	
	IME 301 or STA 309 Major Support	3	CE 431/431L Major Core	4	CE 406 Major Core	4	
	GSC 321/321L GE Area B4	4	CE 326 Major Core	3	CE 451 Major Core	4	
					GE Area D1b Any approved course in area D1b	4	
	<i>Take the Graduation Writing Test</i>						
Total Units		Total Units		Total Units		18	
Total Units for Year						52	

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	CE 421 Major Core	4	CE 492 Major Core	2	CE 493 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>
	CE 491 Major Core	1	EGR 445 GE Area D4	4	CExxx Major Core	4	
	GE Area D2 Any approved course in area D2	4	GE Area C3 Any approved course in area C3	4	EGR 402 GE Area C4	4	
	CE XXX Major Core	3	GE Area D3 Any approved course in area D3	4		4	
GE Area C2 Any approved course in area C2	4	CExxx Major Core					

	CE 422L	1					
			<i>Request a graduation check</i>		<i>File an application to graduate</i>		
	Total Units	17	Total Units	14	Total Units	13	
						Total Units for Year	44
Total Units on Plan							198
Major Core Units							97
Major Support Units							33
General Education Units							68
Unrestricted Elective Units							0

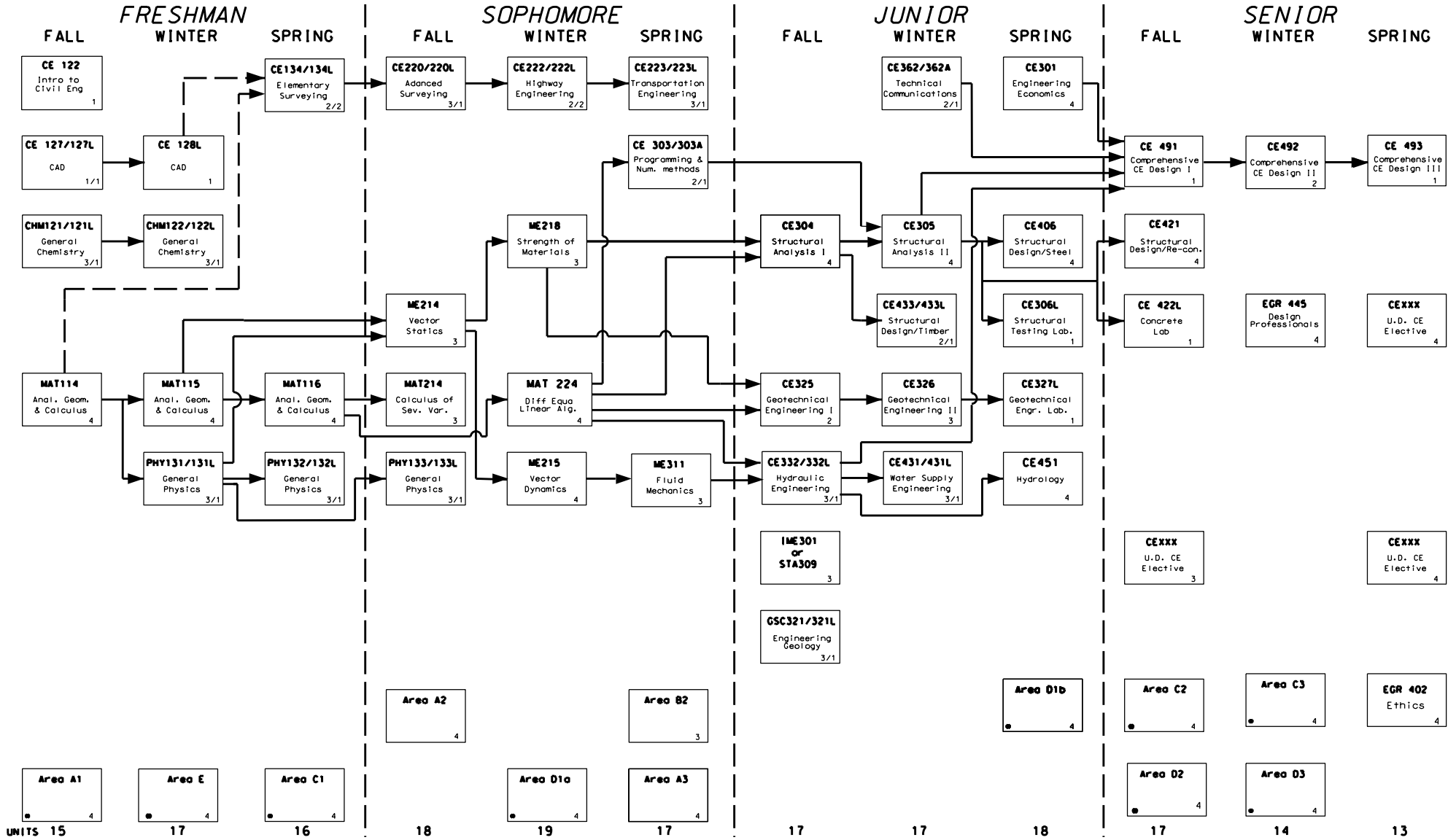
CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

CIVIL ENGINEERING DEPARTMENT CURRICULUM

AY
2009/2010

GENERAL CIVIL 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