



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

Plan (Major) CIVIL ENGINEERING
Subplan/Option Environmental Engineering

Catalog Year 2008-2009
Minimum Units Required 198

Name _____
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
Total Units		55

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
Total Units		39

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

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
Total Units		54

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

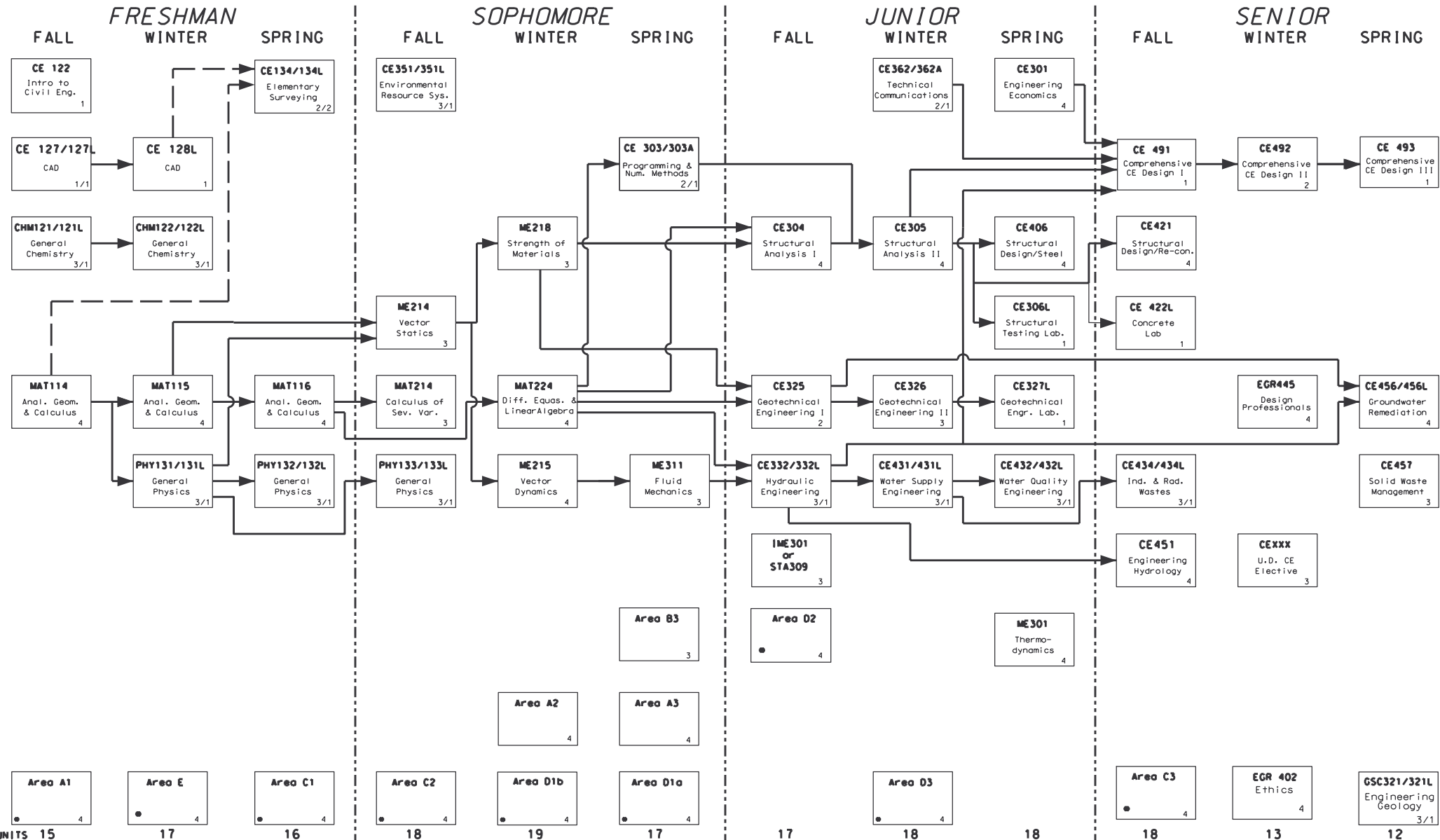
CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

CIVIL ENGINEERING DEPARTMENT CURRICULUM

AY
2008/2009

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 12/20/07

**Civil Engineering Department
Environmental Engineering Option
Curriculum Year: 2008-2009**

*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
	CE122 Major Core	1	CE128L Major Core	1	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 CHM121L satisfy both major and general education requirements</i>
	CE127/127L Major Core	2	CHM 122/122L Major Support	4	MAT 116 Major Support	4	
	CHM 121 Major Support	3	MAT 115 Major Support	4	PHY 132/132L Major Support	4	
	CHM 121L GE Area B2	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 D3 Any approved course in area D3	4			
	ENG 104 GE Area A1	4					
	Total Units	15	Total Units	17	Total Units	16	
	Total Units for Year						48

Year 2	Fall	Units	Winter	Units	Spring	Units	Comments
	CE351/351L Major Core	4	GE Area D1b Any approved course in area D1b	4	GE Area A2 Any approved course in area A2	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>
	ME214 Major Core	3	ME218 Major Core	3	CE303/303A Major Core	3	
	MAT 214 Major Support	3	ME215 Major Core	4	MAT 224 Major Support	4	
	PHY 133/133L Major Support	4	GE Area A3 Any approved course in area A3	4	CE311 Major Core	3	
	GE Area C3 Any approved course in area C3	4	GE Area B3 Any approved course in area B3	3	GE Area D1a Any approved course in area D1a	4	
	Total Units						18
	Total Units for Year						54

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

Year 4	Fall	Units	Winter	Units	Spring	Units	Comments	
	CE491 Major Core	1	CE492 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>	
	CE421 Major Core	4	EGR 445 GE Area D4	4	CE456/456L Major Core	4		
	CE434/434L Major Core	4	CExxx Major Core	4	CE457 Major Core	3		
	CE451 Major Core	4	EGR 402 GE Area C4	4	GSC321/321L GE Area B4	4		
	GE Area C3 Any approved course in area C3	4						
	CE 422L Major Core	1						
				Request a graduation check	File an application for graduation			
	Total Units	18	Total Units	14	Total Units	12		

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