

## California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) \_\_CIVIL ENGINEERING

Subplan/Option \_\_\_\_\_Environmental Engineering

Required Subplan/Option Core Courses

Computer Programming & Numerical Method

Industrial & Hazardous Waste Management

Environmental Resource Management

Introduction to Civil Engineering Engineering Economics

Structural Design - Steel

Groundwater

Thermodynamics I

Water Quality Engineering

Solid Waste Management

Comprehensive C.E. Design I, II, III

Course

Catalog Year 2011-2012
Minimum Units Required 198

Name\_\_\_\_ Student ID \_ Evaluator \_\_\_\_\_\_Yes \_\_\_\_

Required Core Courses		
Course		Units
Students in this major are expected to maintain a	GPA of at least	
2.00 in all core courses.		
Civil Engineering CAD I	CE 127/127L	1/1
Civil Engineering CAD II Lab	CE 128L	1
Elementary Surveying	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 & Documentation	CE 362/362A	2/1
Structural Design - Reinforced Concrete	CE 421	4
Concrete Testing Lab	CE 422L	1
Water Supply Engineering	CE 431/431L	3/1
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		4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength of Materials I	ME 218	3
Fluid Mechanics I	ME 311	3
	Total Units	70

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	Total Units	70		
			,	
		Units		
	CE 122	1 1	1 1	
			1 1	
	CE 301	4		
	CE 303/303A	4 2/1		
	CE 303/303A CE 351/351L	4 2/1 3/1		
	CE 303/303A CE 351/351L CE 406	2/1 3/1 4		
	CE 303/303A CE 351/351L	4 2/1 3/1		
	CE 303/303A CE 351/351L CE 406 CE 432/432L CE 434/434L CE 456/456L	2/1 3/1 4 3/1 3/1 3/1 3/1		
	CE 303/303A CE 351/351L CE 406 CE 432/432L CE 434/434L CE 456/456L CE 457	2/1 3/1 4 3/1 4 3/1 3/1 3/1 3		
CE	CE 303/303A CE 351/351L CE 406 CE 432/432L CE 434/434L CE 456/456L	2/1 3/1 4 3/1 3/1 3/1 3/1		

**Total Units** 

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

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

ieneral I	Education Requirements		☑ IGE (G.E	
Area	•	Units	Alternati	
Area A	Communication & Critical Thinking	12	IGF 120	
1	Oral Communication		IGE 120	_
2	Written Communication		IGE 121	_
3	Critical Thinking		IGE 122	-
Area B	Mathematics & Natural Sciences	16	IGE 220	
Select a	t least one lab course from sub-area 1 or 2.		IGE 221	
1	Physical Science		IGE 222	
2	Biological Science		IGE 224	
3	Laboratory Activity		Area A1	
4	Math/Quantitative Reasoning		Area A3	
5	Science & Technology Synthesis		Area B	1
Area C	Humanities	16	Area C1, C	
1	Visual and Performing Arts		or C3	_
2	Philosophy and Civilization		Area C4	
3	Literature and Foreign Language		Area D4	
4	Humanities Synthesis		7 11 00 15 1	
Area D	Social Sciences	20	See Univer	city
1	U.S. History, Constitution, American Ideals		Catalog for	
2	History, Economics and Political Science		information	
3	Sociology, Anthropology, Ethnic & Gender Studies		how IGE m	
4	Social Science Synthesis		G.E. requir	
Area E	Lifelong Understanding & Self Development	4	ments.	_
	Total Units	68		

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

American Cultural Perspectives Requirement
Refer to catalog for list of courses that satisfy this requirements.

Course may also satisfy major, minor, GE, or unrestricted elective requirements.

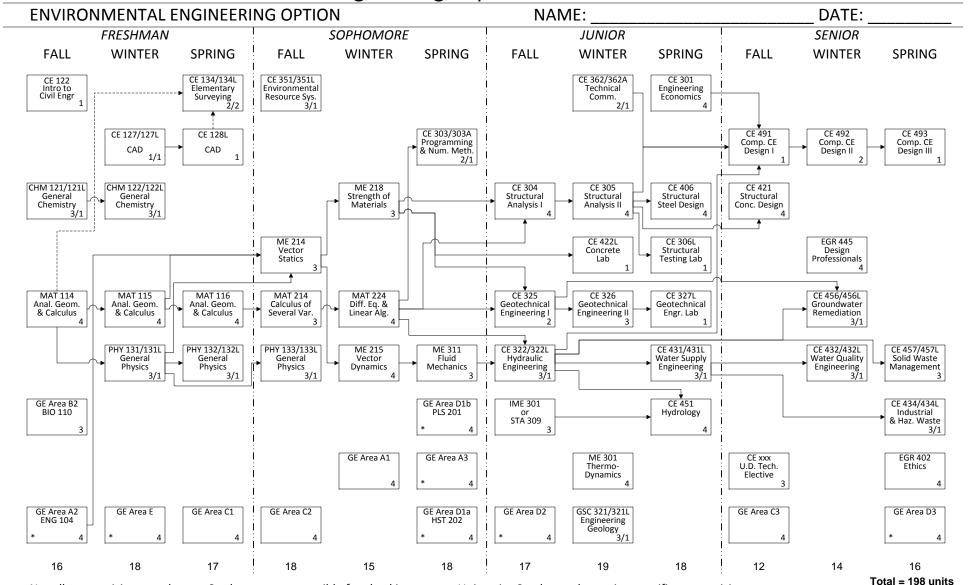
The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		GE Area
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	В3
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

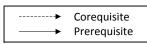
The remaining GE requirements may be satisfied by any course approved for that area.

## California State Polytechnic University, Pomona Civil Engineering Department Curriculum

2011-2012



Not all prerequisites are shown. Students are responsible for checking current University Catalog to determine specific prerequisites.



<sup>\*</sup> IGE sequence replaces these courses plus two of GE Areas C1, C2, and C3. See University Catalog for details.