



California State Polytechnic University, Pomona
Degree Curriculum Sheet

Plan (Major) **CIVIL ENGINEERING**
Subplan/Option **General Civil Engineering**

Catalog Year **2010-2011** 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
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
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength of Materials	ME 218	3
Fluid Mechanics	ME 311	3
Total Units		70

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

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
General Chemistry/Lab	CHM 122/122L	3/1
Analytic Geometry/Calculus I (B4)	MAT 114	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 445	4
Total Units		39

Elective Subplan/Option Courses		
Course		Units
Technical Electives**	CE XXX	11
**Upper Division Civil Engineering Courses approved in advance by advisor.		
Total Units		11

General Education Requirements		IGE (G.E. Alternative)	
Area	Units		
Area A Communication & Critical Thinking	12	IGE 120	4
1 Oral Communication		IGE 121	4
2 Written Communication		IGE 122	4
3 Critical Thinking		IGE 220	4
Area B Mathematics & Natural Sciences	16	IGE 221	4
Select at least one lab course from sub-area 1 or 2.		IGE 222	4
1 Physical Science		IGE 223	4
2 Biological Science		IGE 224	4
3 Laboratory Activity		Area A1	4
4 Math/Quantitative Reasoning		Area A3	4
5 Science & Technology Synthesis		Area B	16
Area C Humanities	16	Area C1, C2	
1 Visual and Performing Arts		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	See University Catalog for information on how IGE meets G.E. requirements.	
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	8
Courses that satisfy this requirement may also satisfy G.E. Area D1	
American Cultural Perspectives Requirement	4
Refer to catalog for list of courses that satisfy this requirement. 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/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 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.

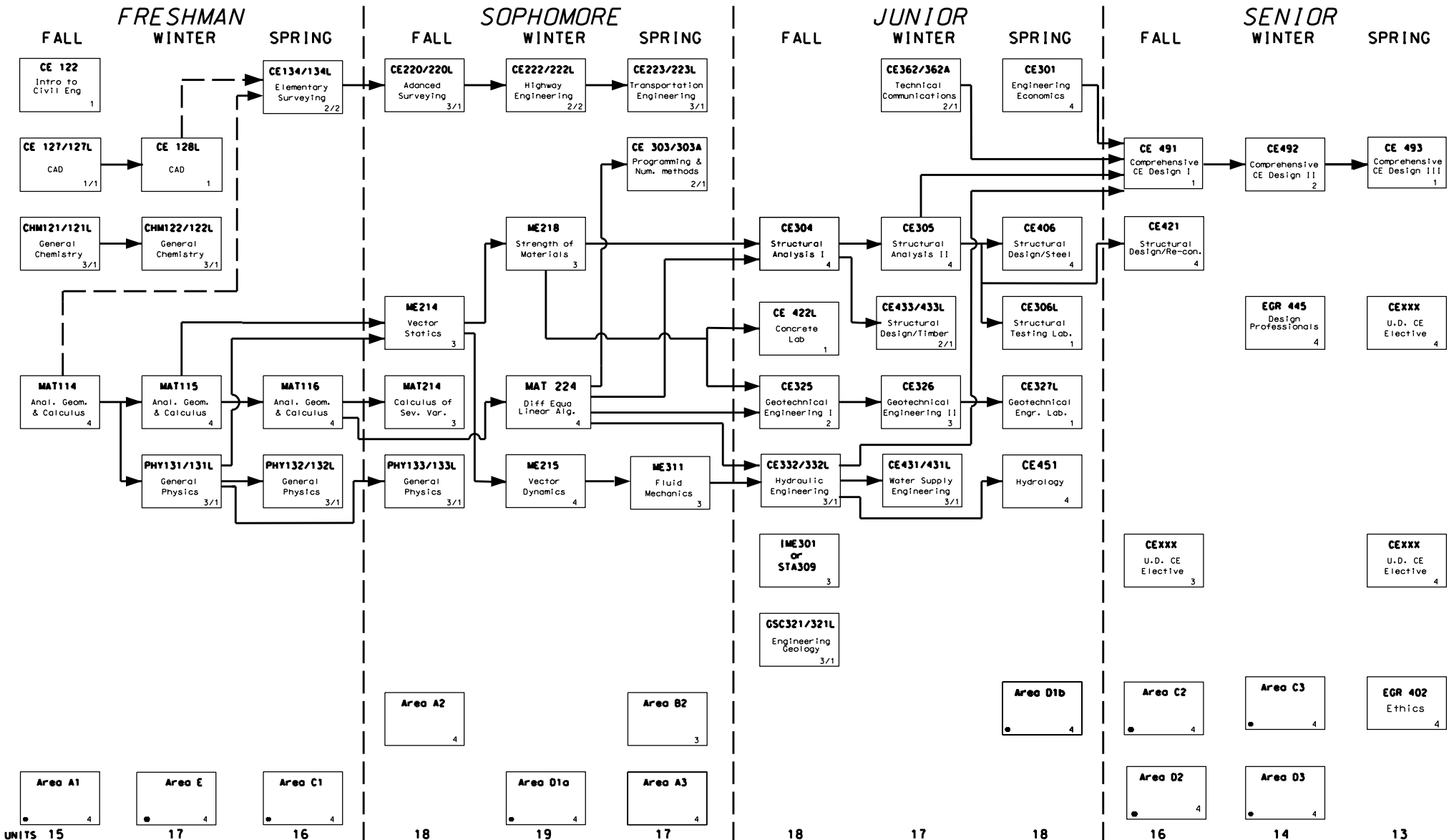
CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

CIVIL ENGINEERING DEPARTMENT CURRICULUM

AY
2010/2011

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
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