California State Polytechnic University, Pomona
Degree Curriculum Sheet

Plan (Major) **CIVIL ENGINEERING** Catalog Year **2010-2011** Name _____ Evaluator _____
Subplan/Option **Environmental Engineering** Minimum Units Required **198** Student ID _____ GWT Satisfied _____Yes ____No

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/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
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
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**

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
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 445	4
	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**

General Education Requirements

Area	Units	IGE (G.E. Alternative)
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 or C3 4
1 Visual and Performing Arts		Area C4 4
2 Philosophy and Civilization		Area D4 4
3 Literature and Foreign Language		
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 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.	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 445	D4

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

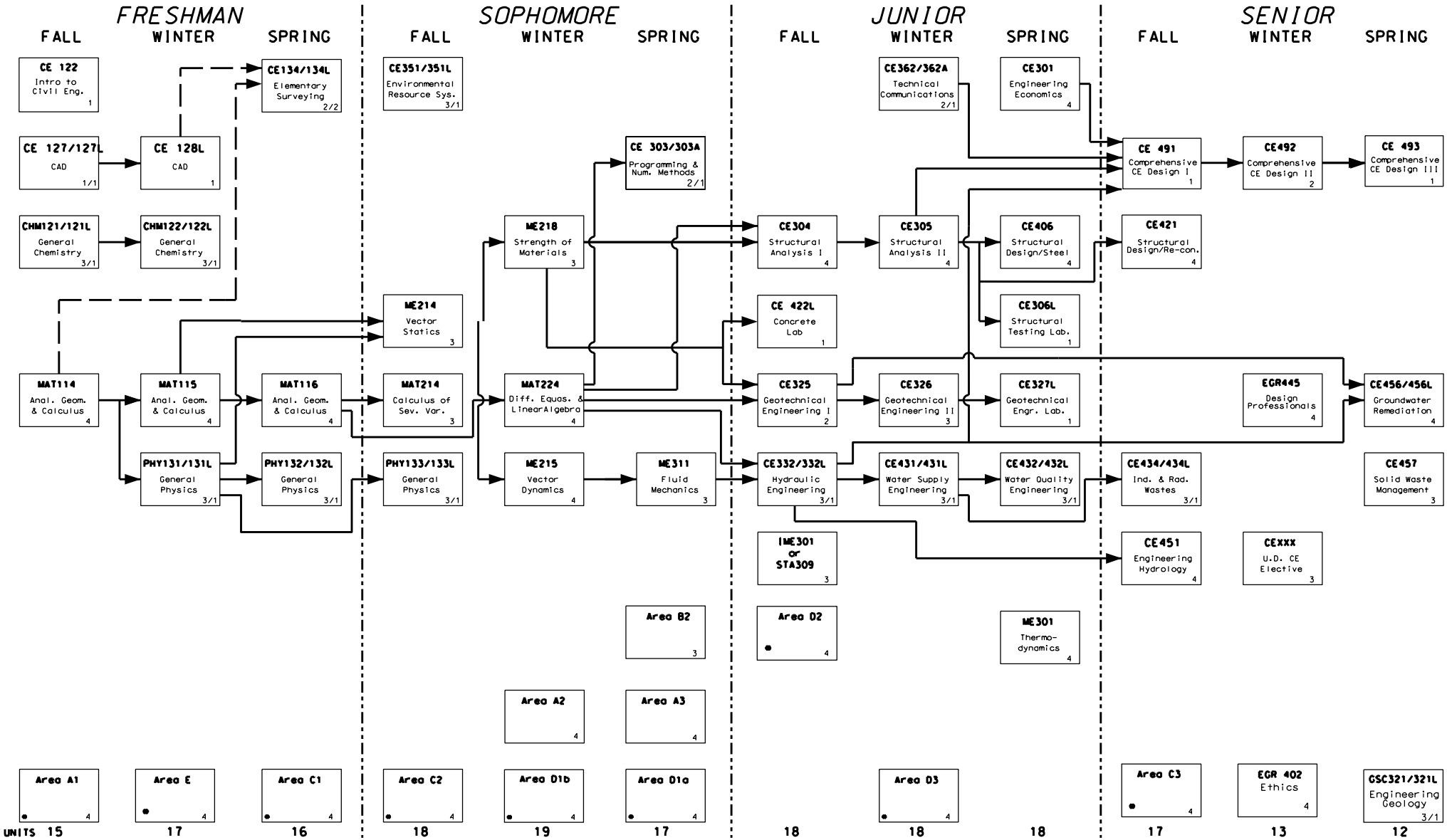
No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.
A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA
CIVIL ENGINEERING DEPARTMENT CURRICULUM

AY 2010/2011

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

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