

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

Plan (Major) __COMPUTER SCIENCE

2011-2012 Catalog Year Name_ Evaluator _ Subplan/Option Minimum Units Required 180 Student ID GWT Satisfied

Required Core Courses		
Course		Units
Discrete Structures	CS 130	4
Introduction to Computer Science	CS 140	4
Intro to Prog and Prob Solv	CS 141	4
Computer Logic	CS 210	4
Data Struc and Algorithms I	CS 240	4
Data Struc and Algorithms II	CS 241	4
C++ Programming	CS 256	4
Computer Organization and Assembly Prog	CS 264	4
Language Translation and Automata	CS 311	4
Design and Analysis of Algorithms	CS 331	4
Computer Architecture	CS 365	4
Programming Languages	CS 408	4
Operating Systems	CS 431	4
Undergraduate Seminar	CS 463	2
Software Engineering	CS 480	4
	Total Units	58

Elective Core Courses		
Course		Units
At least 20 units from:		20
Programming Graphical User Interfaces Numerical Methods Symbolic Programming Object-Oriented Design & Programming Parallel Processing Computer Networks Compilers and Interpreters Artificial Intelligence Database Systems Computer Graphics Computer Graphics Computability Secure Communication Software Engineering Practice Honors Special Topics for Upper Division Studnets	CS 245 CS 301 CS 352 CS 356 CS 370 CS 380 CS 411 CS 420 CS 435 CS 445 CS 450 CS 460 CS 481 CS 490 CS 499	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
No more than 8 units from: CS 299, CS 400, CS 461, CS 462, EGR 462, EGR 463, MAT 216, MAT 370, MAT 380, MAT 381, MAT 470, MAT 480, MAT 485, MAT 486, SCI 470, SCI 471, S	, MAT 402,	
	Total Units	27

Required Support Courses		
Course		Units
Life Science (B2, B3)	BIO 110/111L	3/1
Computers and Society (B5)	CS 375	4
Anal Geom & Calculus I (B4)	MAT 114	4
Anal Geom & Calculus II	MAT 115	4
Anal Geom & Calculus III	MAT 116	4
Linear Algebra	MAT 208	4
Calculus Sev Variables	MAT 214	3
General Physics (B1, B3)	PHY 131/131L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
Stat Meth for Comp Scientists	STA 326	4
	Total Units	43

General Education Requirements		
Area	·	Units
Area A	Communication & Critical Thinking	12
1	Oral Communication	
2	Written Communication	
3	Critical Thinking	
Area B	Mathematics & Natural Sciences	16
Select a	t least one lab course from sub-area 1 or 2.	
1	Physical Science	
2	Biological Science	
3	Laboratory Activity	
4	Math/Quantitative Reasoning	
5	Science & Technology Synthesis	
Area C	Humanities	16
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

Yes

_No

American Institutions Courses that satisfy this requirement may also satisfoliated.	y G.E. Area 8	
B1		

American Cultural Perspectives Requirement	
Refer to catalog for list of courses that satisfy this requirement.	4
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
Life Science	BIO 110/111L	B2, B3
Anal Geom & Calculus I	MAT 114	B4
Computers and Society	CS 375	B5

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