

2011-13 Cal Poly Catalog**Physics Department****BA PHYSICS**

- 60 units upper division GWR
 2.0 GPA USCP

* = Required in Major; also satisfies GE

Course sequencing: See flowcharts at

www.csmadvising.calpoly.edu/

¹ Note: Major courses with lab component may not be taken credit/no credit.

MAJOR COURSES

PHYS 141 General Physics IA	4
PHYS 132 General Physics II (B3 & B4)*	4
PHYS 133 General Physics III	4
PHYS 206 Instrumentation in Experimental Physics	3
PHYS 211 Modern Physics I.....	4
PHYS 212 Modern Physics II	4
PHYS 256 Electrical Measurements Laboratory.....	1
PHYS 301 Thermal Physics I	4
PHYS 302 Classical Mechanics I	4
PHYS 322 Vibrations and Waves	3
PHYS 405 Quantum Mechanics I or	
PHYS 412 Solid State Physics.....	3-4
PHYS 461 Senior Project I or	
PHYS 463 Senior Project - Lab Research I.....	2
Select one from the following:	3-4
HIST 350 The Scientific Revolution, c. 1500-1800 (4) (D5) (5/24/12)	
² PHIL 321 Philosophy of Science (4) (C4*),	
³ PHIL 421 Phil. of Space, Time and Matter (4), or SCM 451 Ethics in the Sciences (3)	
CHEM 127 General Chemistry	4
CHEM 128 General Chemistry	4
MATH 141 Calculus I (B1) *	4
MATH 142 Calculus II (B1)*	4
MATH 143 Calculus III	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I.....	4
MATH/STAT elective (300-400 level; MATH 344 recommended)	4
Physics electives (300-400 level)	16
Select at least one of the following: PHYS 323, 340, 341, 342, 357, 417, 422, 423, 452, ASTR 444. In addition, choose courses with the prefixes PHYS, ASTR or GEOL (but no more than 6 units from each of ASTR and GEOL)	

91-93**GENERAL EDUCATION (GE)**

72 units required, 12 of which are specified in Major.

→See page 39 for complete GE course listing.

→Minimum of 12 units required at the 300 level.

Area A Communication (12 units)

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation, and Writing.....	4

Area B Science and Mathematics (4 units)

B1 Mathematics/Statistics * 8 in Major	0
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B2 Life Science	4
B3 Physical Science * 4 in Major	0
B4 One lab taken with either a B2 or B3 course	

Area C Arts and Humanities (20 units)

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective.....	4
Area C elective (Choose one course from C1-C4)	4

Area D/E Society and the Individual (20 units)

D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D4 Self Development (CSU Area E)	4
D5 Upper-division elective	4

Area F Technology Elective (upper division) (4 units)

60	
FREE ELECTIVES	27-29 †
	180

¹ The following major courses cannot be taken as CR/NC grading: PHYS 132, 133, 256, 323, 340, 341, 342, 357, 417, 422, 423, 452, ASTR 444.

² Note (C2) prerequisite for this course.

³ Note PHIL 230 or 231 (C2) prerequisite for this course.

† Care must be taken when selecting electives to ensure compliance with the "60 unit upper division" requirement.