BA PHYSICS

- 60 units upper division
- GWR
- 2.0 GPA
- USCP

* = Required in Major; also satisfies GE

Course sequencing: See flowcharts at www.csadvising.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
- 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
- C5 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) 4

FREE ELECTIVES ........................................ 27-29 1

85 1

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.

1 Care must be taken when selecting electives to ensure compliance with the “60 unit upper division” requirement.