Physics Department

BA PHYSICS

Flowchart

☐ 60 units upper division  ☐ GWR
☐ 2.0 GPA  ☐ USC P

* = Required in Major; also satisfies GE

Course sequencing: See flowcharts at
www.csmadvising.calpoly.edu

Note: No major or support courses may be taken as 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

1. PHIL 321 Philosophy of Science (4) (C4*),
2. 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, 341-2, 357, 417, 423, 452
  In addition, choose courses with the prefixes
  PHYS, ASTR or GEOL (but no more than 6
  units from each of ASTR and GEOL)

GENERAL EDUCATION (GE)

72 units required, 16 of which are specified in Major.

∧See page 50 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

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

ELECTIVES ..................................................... 27-29†

180

91-93

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

† Note (C2) prerequisites for these courses.