

BA PHYSICS

NAME _____
STUDENT ID _____
MINOR _____

2020-2021

updated
1.21.20

Units Required 180



CAL POLY

Cal Poly, Higher Ed, and Major GPA at least 2.00 [] YES [] NO
US Cultural Pluralism Met [] YES [] NO
60 Units Upper Division Met Taken/Remaining [] YES [] NO
GWR Met [] YES [] NO
Upper-Division GE Met Taken/Remaining [] YES [] NO
Free Electives Met [] YES [] NO
C- or higher in A1, A2, A3, and B4 [] YES [] NO
Residency Requirements Met [] YES [] NO

NOTE: This is a snapshot of the curriculum as originally published in the catalog. The Degree Progress Report (DPR) reflects updates to the published catalog. The DPR will be used to award your degree and calculate your EAP.

Note: No Major courses with a lab component may be selected as credit/no credit.

Note: Students intending to double major must consult the Physics department chair, preferably prior to sophomore year.

MAJOR COURSES (92)	Units	Grade	Grd Pts
PHYS 141 General Physics IA	4		
PHYS 132 General Physics II (B1&B3) ^{1,2}	4		
PHYS 133 General Physics III ¹	4		
PHYS 206 ¹ or PHYS 202	4		
PHYS 211 Modern Physics I	4		
PHYS 212 Modern Physics II	4		
PHYS 301 Thermal Physics I	4		
PHYS 302 Classical Mechanics I	4		
PHYS 320 Methods and Theoretical Physics I	4		
PHYS 405 Quantum Mechanics I	4		
PHYS 408 Electromagnetic Fields and Waves I	4		
PHYS 461 Senior Project I	2		
MATH 141 Calculus I (B4) ²	4		
MATH 142 Calculus II (GE Electives) ²	4		
MATH 143 Calculus III	4		
MATH 206 Linear Algebra I	4		
MATH 241 Calculus IV	4		
MATH 242 Differential Equations I	4		
Upper-division Electives	22		
Laboratory Electives - 1 unit (Excess to Tech Elect)			
Select one from the following: ^{1,3}			
ASTR 444; PHYS 323, 340, 341, 357, 417, 422, 423, 452.			
Technical Elect - 14 units (Excess to Breadth Elect)			
Select from the following: ^{1,4,5}			
Any 300-400 level courses with PHYS, ASTR, or GEOL prefix courses. ⁶			
OR one from the following:			
HIST 350; PHIL 321, 323, 421.			
Breadth Electives - 7 units			
Select from any 300-400 level course. ^{1,3}			

GENERAL EDUCATION (GE)

60

72 units required, 12 of which are specified in Major/Support

Minimum of 12 units required at the 300 level.

Area A English Lang Comm & Critical Thinking

12

A1 Oral Communication 4
A2 Written Communication 4
A3 Critical Thinking 4

Area B Scientific Inquiry & Quantitative Reasoning

8

B1 Physical Science (4 units in Major) ²
B2 Life Science..... 4
B3 Laboratory Activity (in Major) ²
B4 Math/Quant. Reasoning (4 units in Major) ²
Upper-Division B 4

Area C Arts and Humanities

16

Lower-division Area C courses must come from 3 different subject prefixes

C1 Arts⁹ 4
C2 Humanities⁹ 4
Lower-Division C Elective: C1 or C2⁹ 4
Upper-Division C 4

Area D Social Sciences

16

D1 American Inst. (Title 5/40404)..... 4

Courses in D2 must come from two different subject prefixes

D2 Lower-Division D¹⁰ 4
D2 Lower-Division D¹⁰ 4
Upper-Division D 4

Area E Lifelong Learning and Self-Development

4

Lower-Division E 4

GE Electives in Area C and D

4

Select a course from Area C or D; may be lower- or upper- division

GE Elective (GE Area C or D)..... 4
GE Elective (4 units of Area B in Major) ²

FREE ELECTIVES^{7,8}

28

¹ Major courses with a lab component may not be selected as CR/NC grading. These include, but are not limited to PHYS 132, 133, 206, 323, 340, 341, 342, 357, 417, 422, 423, 452; ASTR 444.

² Required in Major; also satisfies General Education (GE) requirement.

³ Units in excess of 1 unit will count towards Technical Elective units.

⁴ Excess units will count towards Breadth Elective units.

⁵ Total combines electives credit in PHYS 400, PHYS 404, ASTR 400, ASTR 404, GEOL 400, and GEOL 404 limited to 8 units, with a maximum of 2 units per quarter.

⁶ PHYS 321 is recommended.

⁷ CHEM 124 and CHEM 125 are recommended.

⁸ Care must be taken to ensure compliance with the "60 units of upper division" requirement.

⁹ C1, C2, and C elective must come from three different subject prefixes.

¹⁰ Second D2 must be a different subject prefix from the first D2.