

NOTE: This document can be used as a compact display of courses and other curricular requirements. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly career.

Note: No major, support or concentration courses may be selected as credit/no credit.

MAJOR COURSES (112)	<i>Units</i>
PHYS 141 General Physics IA	4
PHYS 132 General Physics II (B3 & B4) ²	4
PHYS 133 General Physics III	4
PHYS 202 Physics on the Computer	4
PHYS 206 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	3
PHYS 340 Quantum Physics Laboratory I	2
PHYS 341 Quantum Physics Laboratory II	2
PHYS 405 Quantum Mechanics I	4
PHYS 408 Electromagnetic Fields and Waves I	4
PHYS 461 <i>or</i> PHYS 463	2
PHYS 462 <i>or</i> PHYS 464	2
CHEM 127 General Chemistry I	4
CHEM 128 General Chemistry II	4
MATH 141 Calculus I (B1) 2	4
MATH 142 Calculus II (B1) 2	4
MATH 143 Calculus III	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
MATH 304 Vector Analysis	4
MATH 344 Linear Analysis II	4
Select 21 Adv Physics Elective units from the following⁵ or declare and follow a concentration (see reverse)	
PHYS 424 <i>or</i> MATH 418	3
Select <u>nine units</u> of PHYS 300 or 400-level electives	
	3
	3
	3
Select an additional <u>nine units</u> of 300 or 400-courses from the following prefixes: PHYS/ ASTR/GEOL/ MATH/STAT/CSC ⁴ with at least one course from PHYS 323, 342, 357, 417, 422, 423, 452; ASTR 444	
	3
	3
	3

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 Required in Major; also satisfies GE.

³ Students in Electro-optics Concentration should take PHYS 323 vs. PHYS 322.

⁴ Excludes ASTR 324; CSC 302, CSC 310. Can also select CSC 101, 231, 234, 235

GENERAL EDUCATION (GE)	60
72 units required, 12 of which are in Major	
Minimum of 12 units required at the 300 level.	
Area A Communication	12
A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation & Writing	4
Area B Science and Mathematics	4
B1 Math/Stats (8 units in Major) ¹	
B2 Life Science	4
B3 Physical Science (4 units in Major) ¹	
B4 One lab with B2 or B3 (built in) ¹	
Area C Arts and Humanities	20
C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective	4
C1-C5 Elective	4
Area D/E Society and the Individual	20
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 (upper div)	4
FREE ELECTIVES	8

⁵For students anticipating an industrial career, PHYS 323, 357, 412, 413, 423, and 452 are suggested.

For students anticipating graduate work in physics, PHYS 303, 401, 406, 409, 424, and MATH 408 are suggested.

For students anticipating a career in experimental physics, PHYS 357 is suggested.

OTHER DEGREE REQUIREMENTS:

- **Cal Poly, Higher Ed, and Major GPA must all be at least 2.00**

All students must complete:

- **United States Cultural Pluralism Requirement**
- **Graduation Writing Requirement**
- **60 units Upper Division (any 300-400 level classes)**
- **Upper Division units in the Major: 27**
- **Residency Requirements: See Degree Progress Report for**

ELECTRONICS CONCENTRATION

PHYS 357	Adv. Instrumentation in Experimental Physics.....	3
⁶ EE 228	Continuous-Time Signals and Systems.....	4
EE 302	Classical Control Systems.....	3
EE 328	Discrete Time Signals and Systems.....	3
EE 342	Classical Control Systems Laboratory.....	1
EE 368	Signals and Systems Laboratory.....	1
EE 336 or EE 306 and EE 346.....		4
<i>Advanced Physics Electives (see reverse)</i>		<u>2</u>
		21

ELECTRO-OPTICS CONCENTRATION

PHYS 357	Adv. Instrumentation in Experimental Physics.....	3
PHYS 423	Advanced Optics.....	4
⁶ EE 228	Continuous-Time Signals and Systems.....	4
EE 403	Fiber Optic Communication.....	3
EE 418	Photonic Engineering.....	3
EE 443	Fiber Optics Laboratory.....	1
EE 458	Photonic Engineering Laboratory.....	1
<i>Advanced Physics Electives (See reverse)</i>		<u>2</u>
		21

⁶ Students are not allowed to enroll in EE 228 until they have both completed PHYS 357 and MATH 344, **and** received approval of advisors in both Physics and Electrical Engineering. Students are then allowed to enroll in EE courses with physics courses substituting for EE prerequisites.