2011-13 Cal Poly Catalog		Area C Arts and Humanities (20 units)
Physics Department		C1 Literature
		C2 Philosophy
BS PHYSICS		C3 Fine/Performing Arts
☐ 60 units upper division ☐ GWR		C4 Upper-division elective
$\square 2.0 \text{ GPA} \qquad \square \text{ USCP}$		Area C elective (Choose one course from C1-C4) 4
* = Required in Major; also satisfies GE		Area D/E Society and the Individual (20 units)
Course sequencing: See flowcharts at		D1 The American Experience (40404)
www.csmadvising.calpoly.edu/		D2 Political Economy
Note: Major courses with lab component may not be take credit/no credit.	n	D3 Comparative Social Institutions
MAJOR COURSES		D4 Self Development (CSU Area E)
PHYS 141 General Physics IA	4	D5 Upper-division elective
PHYS 132 General Physics II (B3 & B4)*	4	Area F Technology Elective (upper division) (4 units)4
PHYS 133 General Physics III	4	60
PHYS 202 Physics on the Computer	4	FREE ELECTIVES 8
PHYS 206 Instrumentation in Experimental Phys.	3	180
PHYS 211 Modern Physics I	4	Advanced Physics Electives or Concentrations
PHYS 212 Modern Physics II	4	(select one)
PHYS 256 Electrical Measurements Laboratory	1	Advanced Physics Electives
PHYS 301 Thermal Physics I	4	This is the default curriculum required for students
PHYS 302 Classical Mechanics I	4	who do not declare a concentration.
² PHYS 322 Vibrations and Waves	3	Select two of the following: PHYS 323, 342, 357,
PHYS 340 Quantum Physics Laboratory I	2	417, 422, 423, 452, ASTR 444 2-8
PHYS 341 Quantum Physics Laboratory II	2	Select one from: PHYS 424 or MATH 418 3-4
PHYS 405 Quantum Mechanics I	4	PHYS 300-400 level elective units (minimum)
PHYS 408 Electromagnetic Fields and Waves I	4	Additional 300 or 400 level elective units (if
PHYS 461 Senior Project I or		needed): PHYS/ASTR/GEOL/MATH/
PHYS 463 Senior Project – Lab Research I	2	STAT/CSC prefix (excludes ASTR 324; CSC
PHYS 462 Senior Project II or	_	302, 310); CSC 101, 231, 234, 235 0-7
PHYS 464 Senior Project – Lab Research II	2	
CHEM 127 General Chemistry	4	For students anticipating an industrial career, PHYS
CHEM 128 General Chemistry	4	323, 357, 412, 413, 423, and 452 are suggested.
MATH 141 Calculus I (B1)*	4	For students anticipating graduate work in physics,
MATH 142 Calculus II (B1)*	4	PHYS 303, 401, 406, 409, 424, and MATH 408
MATH 143 Calculus III		are suggested. PHYS 357 is suggested for students
MATH 241 Calculus IV		who anticipate becoming experimental physicists.
MATH 244 Linear Analysis I	4	21
MATH 304 Vector Analysis	4	Electronics Concentration
MATH 344 Linear Analysis II	4	Students are not allowed to enroll in EE 228 until they have
Advanced Physics electives or Concentration		a) completed PHYS 357 and MATH 344, and
courses (see below)	21	b) received the approval of advisors in both Physics and
	112	Electrical Engineering. Students are then allowed to enroll
GENERAL EDUCATION (GE)		in EE courses with physics courses substituting for EE
72 units required, 12 of which are specified in Major.		prerequisites.
→See page 39 for complete GE course listing.		PHYS 357 Advanced Instrumentation in
→Minimum of 12 units required at the 300 level.		Experimental Physics
Area A Communication (12 units) A1 Expository Writing	1	EE 228 Continuous-Time Signals and Systems
A2 Oral Communication	4 4	EE 302 Classical Control Systems
A3 Reasoning, Argumentation, and Writing	4	EE 328 Discrete Time Signals and Systems
Area B Science and Mathematics (4 units)	7	
B1 Mathematics/Statistics * 8 units in Major	0	The following major courses cannot be taken as CR/NC grading: PHYS
B2 Life Science	4	132, 133, 256, 323, 340, 341, 342, 357, 417, 422, 423, 452, ASTR
B3 Physical Science * 4 units in Major	0	444.
B4 One lab taken with either a B2 or B3 course	•	Students in Electro-optics Concentration should take PHYS 323 instead of PHYS 322.

Electro-optics Concentration

Students following this concentration should take PHYS 323 instead of PHYS 322 as a major requirement.

Students are not allowed to enroll in EE 228 until they have a) completed PHYS 357 and MATH 344, and b) 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.