

Cal Poly Department of Physics: COURSE OFFERINGS 2013-2019*

COURSES in BOLD are required for Physics BS

Courses in Italics are source of advanced Physics electives; "lab" = upper division lab

SU=Summer, F=Fall, W=Winter, SP=Spring

*** OFFERINGS ARE SUBJECT TO CHANGE. Courses with low enrollment may be cancelled.**

ASTR-Astronomy

Course#	Units	Course Title	Qtr(s) Offered*
ASTR 101	4	Introduction to the Solar System	F, W, SP, SU
ASTR 102	4	Introduction to the Stars and Galaxies	F, W, SP
ASTR 112	4	Introduction to the Stars and Galaxies (w/lab)	Not Offered
ASTR 200	1 to 2	Special Problems for Advanced Undergraduates	As needed
ASTR 301	3	The Solar System	W14, W15, W16, W18, W19
ASTR 302	3	Stars and Galaxies	SP
ASTR 324	4	Time, Longitude and Navigation	W
ASTR 326	3	Relativity and Cosmology	F13, F15, F16, F17
ASTR 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
ASTR 444	4	Observational Astronomy (lab)	F13, F14, F15, F16, F18

GEOL-Geology

Course#	Units	Course Title	Qtr(s) Offered*
GEOL 102	4	Physical Geology	F, W, SP
GEOL 200	1 to 2	Special Problems for Advanced Undergraduates	As needed
GEOL 201	3	Physical Geology	F, W, SP, SU
GEOL 203	4	Fossils and the History of Life	W
GEOL 204	3	Geologic History of California	Not offered
GEOL 205	4	Earthquakes	F, W, SP
GEOL 206	1	Geologic Excursions	F, SP
GEOL 241	1	Physical Geology Laboratory	F, SP
GEOL 305	4	Fundamentals of Seismology	W14, W16, W18
GEOL 310	4	Igneous & Metamorphic Petrology	W15, W17, W19
GEOL 330	4	Principles of Stratigraphy	SP14, SP16, SP18
GEOL 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
GEOL 401	4	Field-Geology Methods	W
GEOL 402	4	Geologic Mapping	SP
GEOL 415	4	Structural Geology	F
GEOL 420	3	Applied Geophysics	F

PHYS-Physics (100-200 Level)

Course#	Units	Course Title	Qtr(s) Offered*
PHYS 104	4	Introductory Physics	F
PHYS 107	4	Introduction to Meteorology	Not offered
PHYS 111	4	Contemporary Physics for Non-Scientists	W
PHYS 121	4	College Physics I	SU, F, W, SP
PHYS 122	4	College Physics II	SU, F, W, SP
PHYS 123	4	College Physics III	F, W, SP
PHYS 132	4	General Physics II /Calculus Based	SU, F, W, SP
PHYS 133	4	General Physics III /Calculus Based	SU, F, W, SP
PHYS 141	4	General Physics/Calculus Based	SU, F, W, SP
PHYS 200	1 to 2	Special Problems for Undergraduates	As needed
PHYS 201	1	Learning Center Tutors	F, W, SP
PHYS 202	4	Physics on the Computer	SP
PHYS 206	3	Instrumentation in Experimental Physics (w/ 256)	W
PHYS 211	4	Modern Physics I	F, W, SP
PHYS 212	4	Modern Physics II	SP
PHYS 220	1 (CR/NC)	Introduction to Physics Research	W
PHYS 256	1	Electrical Measurements Laboratory (w/ 206)	W

PHYS-Physics (300-400 Level)

Course#	Units	Course Title	Qtr(s) Offered*
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PHYS 301	4	Thermal Physics I	W
PHYS 302	4	Classical Mechanics	F
PHYS 303	3	<i>Classical Mechanics II</i>	W
PHYS 310	3	<i>Physics of Energy</i>	SP15, SP17, SP19
PHYS 313	3	<i>Introduction to Atmospheric Physics</i>	SP15, SP17, SP19
PHYS 315	3	<i>Introduction to Lasers and Laser Applications</i>	SP14, SP16, SP18
PHYS 317	3	<i>Special Theory of Relativity</i>	W14, W16, W18
PHYS 322	3	Vibrations/Waves	F
PHYS 323	4	<i>Optics (lab)</i>	W
PHYS 330	2	<i>Teaching Physics</i>	SP16, SP18
PHYS 340	2	Quantum Physics Lab I (lab)	F
PHYS 341	2	Quantum Physics Lab II (lab)	W
PHYS 342	1	<i>Quantum Physics Lab III (lab)</i>	SP
PHYS 357	3	<i>Advanced Instrumentation in Experimental Physics(lab)</i>	SP15, SP17, SP19
PHYS 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
PHYS 401	3	<i>Thermal Physics II</i>	SP14, SP16, SP18
PHYS 403	3	<i>Nuclear and Particle Physics</i>	SP15, SP17, SP19
PHYS 405	4	Quantum Mechanics I	SP
PHYS 406	3	<i>Quantum Mechanics II</i>	F
PHYS 408	4	Electromagnetic Fields and Waves I	F
PHYS 409	3	<i>Electromagnetic Fields and Waves II</i>	W
PHYS 410	3	<i>Physics of the Solid Earth</i>	W15, W17, W19
PHYS 412	3	<i>Solid State Physics</i>	F
PHYS 413	3	<i>Advanced Topics in Solid State Physics</i>	SP16, SP18
PHYS 417	4	<i>Nonlinear Dynamical Systems (lab)</i>	SP14, SP16, SP17, SP18
PHYS 422	1	<i>Polymer Electronics Laboratory (lab)</i>	SP14, SP16, SP17, SP19
PHYS 423	4	<i>Advanced Optics (lab)</i>	SP15, SP17, SP19
PHYS 424	3	<i>Theoretical Physics</i>	SP14, SP16, SP18
PHYS 452	1	<i>Solid State Physics Laboratory (lab)</i>	SP16, SP18
PHYS 461/462	2,2	Senior Project	SU, F, W, SP
PHYS 463/464	2,2	Senior Project-Laboratory Research	SU, F, W, SP
PHYS 470	1 to 4	<i>Selected Advanced Topics</i>	<i>Demand</i>
PHYS 471	1 to 4	<i>Selected Advanced Laboratory</i>	<i>Demand</i>
PHYS 485	6	Cooperative Education - Part-time	SU, F, W, SP
PHYS 495	12	Cooperative Education - Full-time	SU, F, W, SP
PSC-Physical Science			
Course#	Units	Course Title	Qtr(s) Offered*
PSC 101	4	The Physical Environment: Matter and Energy	F, W, SP
PSC 102	4	The Physical Environment: Atoms and Molecules	W
PSC 103	4	The Physical Environment: Earth and the Universe	SP
PSC 200	1 to 2	Special Problems for Advanced Undergraduates	As needed
PSC 201	4	Physical Oceanography	F, W, SP
PSC 307	4	Nuclear Weapons in the Post-Soviet World	F
PSC 320	4	Energy and the Environment for the New Millennium	W
PSC 391	4	Appropriate Technology for the World's People; Development	F
PSC 392	4	Appropriate Technology for the World's People: Design	SP
PSC 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
PSC 424	4	Organizing / Teaching PSC	F
PSC 461	2	Senior Project	SU, F, W, SP
PSC 491	4	Appropriate Technology for the World's People; Development	F
PSC 492	4	Appropriate Technology for the World's People: Design	SP
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