Cal Poly Department of Physics: COURSE OFFERINGS 2017-2019*

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 (2017-2021)

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 200	1 to 2	Special Problems for Advanced Undergraduates	As needed
ASTR 301	3	The Solar System	W18, W19, W20
ASTR 302	3	Stars and Galaxies	SP18, S19, S20, S21
ASTR 324	4	Time, Longitude and Navigation	W
ASTR 326	3	Relativity and Cosmology	F17, F19, F20
ASTR 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
ASTR 404	1 to 2	Research Experience for Advanced Undergraduates	As needed
ASTR 444	4	Observational Astronomy (lab)	F18, F19, F20

GEOL-Geology

Course#	Units	Course Title	Qtr(s) Offered*
GEOL 102	4	Introduction to 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 205	4	Earthquakes	F, SP
GEOL 206	1	Geologic Excursions	F, SP
GEOL 241	1	Physical Geology Laboratory	F, SP
GEOL 305	4	Fundamentals of Seismology	W18
GEOL 310	4	Igneous & Metamorphic Petrology	W19
GEOL 330	4	Principles of Stratigraphy	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 404	1 to 2	Research Experience for Advanced Undergraduates	As needed
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	F
PHYS 121	4	College Physics I	F, W, SP, SU
PHYS 122	4	College Physics II	F, W, SP, SU
PHYS 125	1	College Physics I Laboratory	F, W, SP
PHYS 123	4	College Physics III	F, W, SP
PHYS 132	4	General Physics II /Calculus Based	F, W, SP, SU
PHYS 133	4	General Physics III /Calculus Based	F, W, SP, SU
PHYS 141	4	General Physics/Calculus Based	F, W, SP, SU
PHYS 200	1 to 2	Special Problems for Undergraduates	As needed
PHYS 202	4	Physics on the Computer	SP
PHYS 206	4	Instrumentation in Experimental Physics	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-Physics (300-400 Level)			
Course#	Units	Course Title	Qtr(s) Offered*
PHYS 301	4	Thermal Physics I	W
PHYS 302	4	Classical Mechanics	F
PHYS 303	3	Classical Mechanics II	W
PHYS 310	3	Physics of Energy	SP19
PHYS 313	3	Introduction to Atmospheric Physics	SP19
PHYS 315	3	Introduction to Lasers and Laser Applications	SP18
PHYS 318	3	Special Theory of Relativity	W18
PHYS 322	3	Vibrations/Waves	F
PHYS 323	4	Optics (lab)	W
PHYS 330	4	Teaching Physics	SP18
PHYS 340	2	Quantum Physics Lab I (lab)	F
PHYS 341	2	Quantum Physics Lab II (lab)	W
PHYS 342	1	Quantum Physics Lab III (lab)	SP
PHYS 357	3	Advanced Instrumentation in Experimental Physics(lab)	SP19
PHYS 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
PHYS 401	3	Thermal Physics II	SP18
PHYS 403	3	Nuclear and Particle Physics	SP19
PHYS 404	1	Research Experience for Advanced Undergraduates	As needed
PHYS 405	4	Quantum Mechanics I	SP
PHYS 406	3	Quantum Mechanics II	F
PHYS 408	4	Electromagnetic Fields and Waves I	F
PHYS 409	3	Electromagnetic Fields and Waves II	W
PHYS 410	3	Physics of the Solid Earth	W19
PHYS 412	3	Solid State Physics	F
PHYS 413	3	Advanced Topics in Solid State Physics	SP18
PHYS 417	4	Nonlinear Dynamical Systems (lab)	SP18
PHYS 418	3	Introduction to General Relativity	SP19
PHYS 422	1	Polymer Electronics Laboratory (lab)	SP19
PHYS 423	4	Advanced Optics (lab)	SP19
PHYS 424	3	Theoretical Physics	SP18
PHYS 452	1	Solid State Physics Laboratory (lab)	SP18
PHYS 461/462	2, 2	Senior Project	F, W, SP, SU
PHYS 463/464	2, 2	Senior Project-Laboratory Research	F, W, SP, SU
PHYS 470	1 to 4	Selected Advanced Topics	As needed
PHYS 471	1 to 4	Selected Advanced Laboratory	As needed
PHYS 485	6	Cooperative Education - Part-time	As needed
PHYS 495	12	Cooperative Education - Full-time	As needed
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 201	4	Physical Oceanography	F, W, SP
PSC 307	4	Nuclear Weapons in the Post-Soviet World	SP18, SP20, SP22
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 424	4	Organizing / Teaching PSC	F
PSC 425	2	Clinical Experience in Teaching Science Seminar	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
PSC-Physical Science			
Course#	Units	Course Title	Qtr(s) Offered*
SCM 302	2	The Learn By Doing Lab Teaching Practicum	W, SP
SCM 360	4	Selected Environmental Issues of California's Central Coast	SP19, SP21, SP23
			Revised 05162018 EMO