Cal Poly Department of Physics: COURSE OFFERINGS 2022-2023

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.

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Courso#	Unito					
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 270	1 to 4	Selected Topics	As needed			
ASTR 301	3	Planetary Systems	W22, W23, W24			
ASTR 302	3	Stars and Galaxies	SP			
ASTR 324	4	Time, Longitude and Timekeeping	W			
ASTR 326	3	Cosmology	F23, F24, F25			
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)	F22, F23, F24			
ASTR 470	1 to 4	Selected Advanced Topics.	As needed			
ASTR 471	1 to 2	Selected Advanced Laboratory (lab)	As needed			
		GEOL-Geology				
Course#	Units	Course Title	Qtr(s) Offered*			
GEOL 102	4	Introduction to Geology	W, SP			
GEOL 200	1 to 2	Special Problems for Advanced Undergraduates	As needed			
GEOL 201	3	Physical Geology	F, W, SP			
GEOL 203	4	The Geologic Record: Fossils and the History of Life	W			
GEOL 206	1	Geologic Excursions	F, SP			
GEOL 241	1	Physical Geology Laboratory	F, W, SP			
GEOL 270	1 to 4	Selected Topics	As needed			
GEOL 301	4	Physical Models in the Geosciences	F			
GEOL 303	3	Computation and Visualization in the Geosciences	W			
GEOL 305	4	Seismology and Earth Structure	SP			
GEOL 309	3	Igneous Petrology	SP			
GEOL 311	3	Metamorphic Petrology	SP			
GEOL 330	4	Principles of Stratigraphy	SP22, SP24			
GEOL 400	1 to 2	Special Problems for Advanced Undergraduates	As needed			
GEOL 404	1 to 2	Research Experience for Advanced Undergraduates	As needed			
GEOL 415	4	Structural Geology	F			
GEOL 416	4	Field-Geology Methods	W			
GEOL 417	4	Geologic Mapping	SP			
GEOL 420	3	Applied Geophysics	F			
GEOL 470	1 to 4	Selected Advanced Topics	As needed			
GEOL 471	1 to 4	Selected Advanced Laboratory	As needed			
	PHYS-Physics (100-200 Level)					
Course#	Units	Course Title	Qtr(s) Offered*			
PHYS 101	1	Introduction to the Physics Major	F			
PHYS 104	4	Introductory Physics	F			
PHYS 111	4	Contemporary Physics for Non-Scientists	F			
PHYS 121	4	College Physics I	F, W, SP, SU			
PHYS 122	4	College Physics I	F, W, SP, SU			
PHYS 122	4	College Physics II	F, W, SP			
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PHYS 125	1	College Physics I Laboratory	F, W, SP
PHYS 141	4	General Physics/Calculus Based	F, W, SP, SU
PHYS 142	4	General Physics II /Calculus Based	F, W, SP, SU
PHYS 143	4	General Physics III /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
	1 (CR/NC)	Introduction to Physics Research	W
PHYS 270	1 to 4	Selected Topics	As needed
		PHYS-Physics (300-400 Level)	
Course#	Units	Course Title	Qtr(s) Offered*
PHYS 301	4	Thermal Physics I	W
PHYS 305	4	Classical Mechanics I	F
PHYS 306	3	Classical Mechanics II	W
PHYS 310	3	Physics of Energy	SP25
PHYS 313	3	Introduction to Atmospheric Physics	Not offered
PHYS 314	3	Ocean Dynamics	SP23, SP25
PHYS 315	3	Introduction to Lasers and Laser Applications	
PHYS 318	3	Special Theory of Relativity	
PHYS 320	4	Methods of Theoretical Physics I	F
PHYS 321	4	Methods of Theoretical Physics II	W
PHYS 322	3	Vibrations/Waves	F
PHYS 323	4	Optics (lab)	W
PHYS 330	4	Teaching Physics	SP22
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 345	4	Quantum Computing	SP
PHYS 357	3	Advanced Instrumentation in Experimental Physics (lab)	SP23, SP25
PHYS 400	1 to 2	Special Problems for Advanced Undergraduates	As needed
PHYS 401	3	Thermal Physics II	SP20, SP22, SP24
PHYS 403	3	Nuclear and Particle Physics	SP23, SP25
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	W21, W23, W25
PHYS 418	3	Introduction to General Relativity	SP21
PHYS 423	4	Advanced Optics (lab)	SP23, SP25
PHYS 425	3	Solid State Physics	F
PHYS 426	1	Solid State Physics Laboratory (lab)	SP
PHYS 427	3	Advanced Topics in Solid State Physics	SP
PHYS 428	4	Nonlinear Dynamical Systems (lab)	SP22, SP24
PHYS 461	2	Senior Project I	F, W, SP, SU
PHYS 462	2	Senior Project II	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
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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	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		
SCM - Science and Math					
Course#	Units	Course Title	Qtr(s) Offered*		
SCM 230	2	Seminar for Learning Assistants	F, W, SP		
SCM 302	2	The Learn By Doing Lab Teaching Practicum	W, SP		
			Revised 1/23/23 MHK		