Physics- B.S.

Major Courses

2022 - 2026 Catalog Requirements
To be used only for students completing quarter requirements in the 2026-27 year.

MAJOR COURSES

QUARTER COURSE	SEMESTER COURSE	NOTES
PHYS 141 General Physics I →	**PHYS 1141** General Physics I	
PHYS 142 General Physics II ✗	**DISCONTINUED**	Students may need to take bridge or cap course
PHYS 143 General Physics III →	**PHYS 1143** General Phyics II	Students may need to take bridge or cap course
PHYS 202 Physics on the Computer ✗	**DISCONTINUED**	Take CSC 1001/1001L
PHYS 206 Electronics and Instrumentation →	**PHYS 3316** Instrumentation & Techniques of Experimental Physics	
PHYS 211 Modern Physics I →	**PHYS 2211** General Physics III- Modern Phyics	
PHYS 212 Modern Physics II ✗	**DISCONTINUED**	
PHYS 301 Thermal Physics I →	**PHYS 3301** Statistical Mechanics	
PHYS 305 Classical Mechanics I →	**PHYS 3305** Classical Mechanics I	
PHYS 320 Methods of Theoretical Physics I →	**PHYS 3320** Methods of Theoretical Physics	
PHYS 321 Methods of Theoretical Physics II ✗	**DISCONTINUED**	
PHYS 340 Quantum Physics Laboratory I →	**PHYS 3340** Quantum Physics Laboratory I	Students need to take cap course in Fall 26 OR PHYS 3339 & PHYS 3340
PHYS 341 Quantum Physics Laboratory II →	**PHYS 3341** Quantum Physics Laboratory II	Students need to take cap course
PHYS 405 Quantum Mechanics I →	**PHYS 4405** Quantum Mechanics I	
PHYS 408 Electromagnetic Fields & Waves I →	**PHYS 4408** Electromagnetic Fields & Waves I	
PHYS 461 Senior Project I →	**PHYS 4461** Senior Project I	

Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion

CAL POLY Student Services
BAILEY COLLEGE OF SCIENCE & MATHEMATICS

Make sure to check your Degree Progress Report and Degree Planner to see if you have enough units to graduate

Physics- B.S.

Major Courses

2022 - 2026 Catalog Requirements

	QUARTER COURSE		SEMESTER COURSE	NOTES
MAJOR COURSES	**PHYS 462** Senior Project II	→	**PHYS 4462** Senior Project II	Only needed if PHYS 4461 was taken as 1 unit
	CHEM 124 Gen Chem for Phys Sci & Engr I	→	**CHEM 1120** Fundamentals of Chemical Structure & Properties	
	CHEM 125 Gen Chem for Phys Sci & Engr II	→	**CHEM 1122** Fundamentals of Chemical Reactivity	
	MATH 141 Calculus I	→	**MATH 1261** Calculus I	
	MATH 142 Calculus II	✗	**DISCONTINUED**	Students may need to take bridge course
	MATH 143 Calculus III	→	**MATH 1262** Calculus II	
	MATH 206 Linear Algebra I	→	**MATH 1151** Linear Algebra I	
	MATH 241 Calculus IV	→	**MATH 2263** Calculus III	
	MATH 242 Differential Equations I	→	**MATH 2243** Differential Equations I	
	Physics Electives Any 300-400 level PHYS course or ASTR 444, of which 2 courses must be lab electives. **ASTR 444** Observational Astronomy **PHYS 323** Optics **PHYS 342** Quantum Physics Laboratory III **PHYS 357** Adv. Instrumentation in Experimental Physics **PHYS 422** Polymer Electronics Laboratory **PHYS 423** Advanced Optics **PHYS 426** Solid State Physics Laboratory **PHYS 428** Nonlinear Dynamical Systems		**Physics Electives** Any 3000-4000 level PHYS course or ASTR 444, of which 2 courses must be lab electives. **ASTR 4444** Observational Astronomy **PHYS 3323** Optics **PHYS 342 DISCONTINUED** **PHYS 357 DISCONTINUED** **EE 4422** Polymer Electronics Laboratory **PHYS 423 DISCONTINUED** **PHYS 4425** Solid Stat Physics **PHYS 4428** Nonlinear Dynamical Systems	
	Breadth Electives Any 300-400 level PHYS, ASTR, GEOL, MATH, STAT, DATA or CSC, or **PHYS 100,** **PHYS 220** **CSC 101** **CSC 231** **CSC 234** **CSC 235**		**Breadth Electives** Any 3000-4000 level PHYS, ASTR, GEOL, MATH, STAT, DATA or CSC, or **PHYS 1100,** **DISCONTINUED** **CSC 1001** **CSC 1031** **DISCONTINUED** **DISCONTINUED**	

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