

Physics- B.A.

Major Courses

2022 - 2026 Catalog Requirements

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

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Do you need to fulfill a quarter course?
Check the semester requirement!

MAJOR COURSES

QUARTER COURSE		SEMESTER COURSE	NOTES
PHYS 141 General Physics I	➡	PHYS 1141 General Physics I	
PHYS 142 General Physics II	✗	DISCONTINUED	Students need to take cap or bridge course
PHYS 143 General Physics III	➡	PHYS 1143 General Physics II	
PHYS 202 Physics on the Computer OR PHYS 206 Electronics and Instrumentation	✗ ➡	DISCONTINUED OR PHYS 3316 Instrumentation & Techniques of Experimental Physics	Take CSC 1001/1001L
PHYS 211 Modern Physics I	➡	PHYS 2211 General Physics III- Modern Physics	
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 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	
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	



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



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

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QUARTER COURSE	SEMESTER COURSE	NOTES
MATH 241 Calculus IV	MATH 2263 Calculus III	
MATH 242 Differential Equations I	MATH 2243 Differential Equations I	
APPROVED ELECTIVES Laboratory Electives: Select one from the following: ASTR 444 Observational Astronomy PHYS 323 Optics PHYS 340 Quantum Physics Laboratory I PHYS 341 Quantum Physics Laboratory II 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	APPROVED ELECTIVES Laboratory Electives: Select one from the following: ASTR 4444 Observational Astronomy PHYS 3323 Optics PHYS 3340 Quantum Physics Laboratory I PHYS 3341 Quantum Physics Laboratory II DISCONTINUED EE 4422 Polymer Electronics Laboratory DISCONTINUED DISCONTINUED PHYS 4428 Nonlinear Dynamical Systems	
Technical Electives Any 300-400 level PHYS, ASTR, GEOL, or: HIST 350 The Scientific Revolution c. 1500-1800 PHIL 321 Philosophy of Science PHIL 323 Ethics, Science & Technology PHIL 421 Philosophy of Space, Time & Matter	Technical Electives Any 3000-4000 level PHYS, ASTR, GEOL, or: HIST 3350 The Scientific Revolution c. 1500-1800 PHIL 3321 Philosophy of Science PHIL 3323 Ethics, Science & Technology PHIL 4421 Philosophy of Space, Time & Matter	
Breadth Electives PHYS 100 PHYS 220	Breadth Electives PHYS 1100 PHYS 220-DISCONTINUED	see DPR for total units needed



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