

Physics Major requirements								
Lower Division Courses	Course Code	Course Title	Pre-requisites	Co-requisites	Course Units	Semester Offered	Class Format	Required Units
Core	PHYS 225	Fundamental Physics: Mechanics	MATH 150A	PHYS 225L	3	Fall+Spring	Discussion	32
<i>Students must complete all lower division core courses a grade of 'C' or better</i>	PHYS 225L	Fundamental Physics: Laboratory		PHYS 225	1	Fall+Spring	Lab	
	PHYS 226	Fundamental Physics: Electricity and Magnetism	PHYS 225, MATH 150B	PHYS 226L	3	Fall+Spring	Discussion	
	PHYS 226L	Fundamental Physics: Laboratory		PHYS 226	1	Fall+Spring	Lab	
	PHYS 227	Fundamental Physics: Waves, Optics and Modern Physics	PHYS 226, MATH 250A	PHYS 227L	3	Fall+Spring	Discussion	
	PHYS 227L	Fundamental Physics: Laboratory		PHYS 227	1	Fall+Spring	Lab	
	CHEM 120A	General Chemistry A	Pass CPE or CHEM 115		5	Fall+Spring	Discussion + Lab	
<i>or Chem 120B (5 units)</i>	CHEM 125	General Chemistry B (Lecture)	CHEM 120A		3	Fall+Spring	Discussion	
	MATH 150A	Calculus 1	Pass MQE or MATH 125		4	Fall+Spring	Discussion	
	MATH 150B	Calculus 2	MATH 150A		4	Fall+Spring	Discussion	
	MATH 250A	Calculus 3	MATH 150B		4	Fall+Spring	Discussion	
Upper Division Courses	Course Code	Course Title	Pre-requisites	Co-requisites	Course Units	Semester Offered	Class Format	Required Units
Core Courses	PHYS 300	Survey of Mathematical Physics	MATH 250A, PHYS 226		3	Fall+Spring	Discussion	24
<i>Students must complete all upper division core courses a grade of 'C' or better</i>	PHYS 310	Thermodynamics, Kinetic Theory and Statistical Physics	PHYS 226		3	Spring Only	Discussion	
	PHYS 320	Classical Mechanics	PHYS 227; PHYS 300		3	Spring Only	Discussion	
	PHYS 330A	Electromagnetic Theory 1	PHYS 227; PHYS 300		3	Fall Only	Discussion	
	PHYS 330B	Electromagnetic Theory 2	PHYS 330A		3	Spring Only	Discussion	
	PHYS 340	Modern Physics	PHYS 227; PHYS 300		3	Fall Only	Discussion	
	PHYS 380	Methods of Experimental Physics	PHYS 226		3	Fall Only	Discussion + Lab	
	PHYS 455	Introduction to Quantum Physics	PHYS 340		3	Spring Only	Discussion	
Physics Electives	PHYS 301	Energy and Sustainability	Phys. Sci. GE (B1)		3	Per instructor availability	Online	14
<i>Students must complete 14 units worth of elective courses with a grade of 'C' or better</i>	PHYS 315	Computational Physics	PHYS 227		3	Approx every 2nd Fall	Discussion + Activity	
	PHYS 411	Modern Optics	PHYS 300		3	Approx every 2nd Spring	Discussion	
	PHYS 416	Thermal and Statistical Physics	PHYS 300; PHYS 310		3	Approx every 2nd Fall	Discussion	
<i>Study plan must include 1 elective lab course</i>	PHYS 454	Introduction to Solid State of Matter	PHYS 340		3	Approx every 2nd Fall	Discussion	
	PHYS 476	Atomic/Molecular Physics	PHYS 340		3	Approx every 2nd Spring	Discussion	
	PHYS 481	Experimental Physics	PHYS 300; PHYS 380		3	Spring Only	Discussion + Lab	
	PHYS 499	Independent Study			varies, max of 6	Fall+Spring	Research or service	
Writing	ENGL 301	Advanced College Writing	ENGL 101		3	Fall+Spring	Discussion	3
<i>Take 1 of</i>	ENGL 360	Technical Writing			3	Fall+Spring	Discussion	
	ENGL 363	Scientific Writing	Complete GE Writ. Comm. (A2)		3	Fall+Spring	Discussion	
	MATH 380	History of Mathematics	MATH 150B		3	Fall+Spring	Discussion	
							Total Units Required	73
Notes								
PHYS 225, 225L, 226 and 226L are also offered in summer session as extended education. No other Physics courses are offered during summer session.								
Spaces in summer courses are very limited. Students are advised not to rely on summer course availability when formulating their study plans								