

Note: No Major courses with a lab component may be selected as credit/no credit. 1

Note: Students intending to double major must consult the Physics department chair, preferably prior to sophomore year.

MAJOR COUP	KOLO	<u> </u>
PHYS 141	General Physics I	4
PHYS 142	General Physics II (B1 & B3) 1,2	4
PHYS 143	General Physics III ¹	4
PHYS 206	Electronics and Instrumentation ¹	4
or PHYS 202	Physics on the Computer	
PHYS 211	Modern Physics I	4
PHYS 212	Modern Physics II	4
PHYS 301	Thermal Physics I	4
PHYS 305	Classical Mechanics I (Upper-Division B) ²	4
PHYS 320	Methods of Theoretical Physics I	4
PHYS 405	Quantum Mechanics I	4
PHYS 408	Electromagnetic Fields and Waves I	4
PHYS 461	Senior Project I	2
MATH 141	Calculus I (B4) ²	4
MATH 142	Calculus II (GE Electives) ²	4
MATH 143	Calculus III	4
MATH 206	Linear Algebra I	4
MATH 241	Calculus IV	4
MATH 242	Differential Equations I	4
	ctives (22 units)	т.
=	ectives (excess units go to Tech Elect)	1
	the following: 1,3	
	4 Observational Astronomy	
	3 Optics	
	O Quantum Physics Laboratory I	
	1 Quantum Physics Laboratory II	
	77 Adv Instrumentation in Experimental Phys	
	22 Polymer Electronics Laboratory	
	3 Advanced Optics	
	26 Solid State Physics Laboratory	
	8 Nonlinear Dynamical Systems	4.4
	tives (excess units go to Breadth Elect)	14
	rom the following: 1,4,5	
Any 300	1-400 level PHYS, ASTR, or GEOL prefix crs ⁶	
LUCT OF	or ONE of the following:	
	70 The Scientific Revolution, c. 1500-1800	
	1 Philosophy of Science	
	3 Ethics, Science and Technology	
	1 Philosophy of Space, Time and Matter	
Breadth Elect		7
	e upper-division units or PHYS 100, PHYS 220	
to reach total of	22 Approved Elective units.	ı
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GENERAL EDUCATION				
Area	Α	English Language Communication & Critical		
	A1	Oral Communication	4	
	A2	Written Communication	4	
	A3	Critical Thinking	4	
Area	В	Scientific Inquiry and Quantitative Reasoning		
	B1	Physical Science (4 units in Major) ²	0	
	B2	Life Science	4	
	В3	One lab taken with either a B1 or B2 course		
	B4	Maths/Quant Reasoning (4 units in Major) ²	0	
	Upper-	-Division B (4 units in Major) ²	0	
Area	С	Arts and Humanities		
	Select	lower-division courses from 3 different prefixes.		
	C1	Arts	4	
	C2	Humanities	4	
	Lower-	Division C Elective - Select from either C1 or C2	4	
	Upper-	-Division C	4	
Area	D	Social Sciences		
	Select	courses from at least 2 different prefixes		
	D1	American Institutions (Title 5/Section 40404)	4	
	D2	Lower-Division D	4	
	Upper-	-Division D	4	
Area	Е	Lifelong Learning and Self-Development		
	Lower-	Division E	4	
Area	F	Ethnic Studies		
	Lower-	Division F	4	
GE E	lective	s in Areas C and D		
	Select	lower- or upper-division courses from 2 different areas.		
GE Electives (4 units of Area B in Major) 2			0	
GE Electives (Area C or D)			4	
Total GE Units			56	
		CTIVES 7,8	32	
TOTA	AL DEC	GREE UNITS	180	

FOOTNOTES

- ${\bf 1}$ Major courses with lab component may not be taken as CR/NC grading:
- PHYS 142, 143, 206, 323, 340, 341, 342, 357, 422, 423, 426, 428; ASTR 444.
- ${\bf 2} \ {\bf Required} \ {\bf in} \ {\bf Major} \ {\bf or} \ {\bf Support}; \ {\bf also} \ {\bf satisfies} \ {\bf General} \ {\bf Education} \ ({\bf GE}) \ {\bf requirement}.$
- 3 Units in excess of 1 unit will count towards Technical Elective units.
- 4 Excess units will count towards Breadth Elective units.
- 5 Total combined elective credit in PHYS 400, 404; ASTR 400, 404; GEOL 400, 404 limited to 8 units. Max 2 units per quarter.
- 6 PHYS 321 is recommended.
- 7 CHEM 124 and CHEM 125 are recommended.
- 8 At least 8 units must be upper-division (300-400 level).