

BS: PHYSICS DEGREE PLAN (PHYS)	
UNIVERSITY REQUIREMENTS	
Please see the University Requirements section of this catalog (page 36).	
MAJOR REQUIREMENTS	
Chemistry	
CHEM 133/131 General Chemistry I Lecture/Lab	4
CHEM 134/132 General Chemistry II Lecture/Lab	4
Computer Science	
CS 120 Programming I	3
Mathematics	
MATH 185 Calculus I	(3) ¹
MATH 186 Calculus II	3
MATH 286 Calculus III	3
MATH 361 Ordinary Differential Equations	3
Engineering	
ENGR 115/116 Introduction to Engineering	4
Physics	
PHYS 120 Engineering Physics I	(3) ¹
PHYS 121 Engineering Physics I Lab	(1) ¹
PHYS 122 Engineering Physics II	(3)
PHYS 123 Engineering Physics II Lab	(1) ¹
PHYS 230/231 Modern Physics Lecture/Lab	4
PHYS 360 Electricity and Magnetism	3
PHYS 362/363 Optics	4
PHYS 371 Classical Mechanics	3
PHYS 385 Math of Physics and Engineering	3
PHYS 481 Thermodynamics	3
PHYS 491 Quantum Mechanics (writing-intensive course)	3
Other Required Course	
PHIL 379 Philosophy, Religion and Science	(3) ¹
TOTAL	47
¹ Hours (in parentheses) may also fulfill university requirements and are not included in total major hours	
CONCENTRATIONS (CHOOSE ONE)	
Physics Track (PHYS)	
12 additional hours from PHYS 300-499 (except 378)	12
TOTAL	42
Applied Physics (PHYA)	
CS 130 Programming II and Data Structures	3
DSGN 232 Digital Design Communication	3
MATH 341 Numerical Methods or MATH 325 Linear Algebra or MATH 377 Statistical Methods I	3
PHYS 335/336 Introduction to Electronics Lecture/Lab	3
PHYS 342/343 Instrumentation Lecture/Lab	3
PHYS 388 Network Analysis	3
3 additional hours from PHYS 300-499 (except 378)	3
TOTAL	21
Engineering Physics (PHYN)	
CS 130 Programming II and Data Structures	3
DSGN 232 Digital Design Communication	3
ENGR 220 Engineering Mechanics: Statistics	3
ENGR 222 Engineering Mechanics: Dynamics	3
MATH 341 Numerical Methods or MATH 377 Statistical Methods I	3
PHYS 335/336 Introduction to Electronics Lecture/Lab	3
PHYS 342/343 Instrumentation Lecture/Lab or PHYS 388 Network Analysis	3
TOTAL	21
Computational Physics (PHYC)	

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CS 130 Programming II and Data Structures	3
▼ MATH 341 Numerical Methods	3
MATH 377 Statistical Methods I	3
PHYS 451 Computational Physics I: Simulation and Modeling ...	3
PHYS 453 Computational Physics II: Pattern Recognition	3
3 additional hours from CS 300-499 or	
PHYS 300-499 (except 378)	3
3 additional hours from PHYS 300-499 (except 378)	3
▼ TOTAL	21
ELECTIVES	
Physics Track (PHYS)	13
Applied Physics (PHYA)	4
Engineering Physics (PHYN)	4
Computational Physics (PHYC)	4
Minimum Electives	4-13
TOTAL MAJOR HOURS.....	72
OTHER GRADUATION REQUIREMENTS	
Minimum grade for PHYS courses	C
Minimum GPA for graduation	2.00
Minimum advanced hours	33
Minimum total hours	128
<i>Courses numbered 0** do not count in minimum hours required for degree.</i>	

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SUPPLEMENT FOR MAJOR	
Chemistry/Computer Science/Mathematics	
CHEM 133/131 General Chemistry I Lecture/Lab	4
CHEM 134/132 General Chemistry II Lecture/Lab	4
CS 120 Programming I	3
MATH 186 Calculus II	3
MATH 286 Calculus III	3
MATH 361 Ordinary Differential Equations	3
TOTAL	17