PHYSICS (BA)

Physics

Suggested Four-Year Flowcharts are planning guides and do not represent a required course sequence. Courses may be completed in a different order, provided requisite requirements are satisfied.

First Year		
Term 1		**Units**
PHYS 1100	Introduction to the Physics Major	1
CHEM 1120	Fundamentals of Chemical Structure and Properties	4
MATH 1261	Calculus I (2) [1]	4
General Education Requirement (1A)		3
General Education Requirement (1C)		3
	Units	**15**
Term 2		
PHYS 1141	General Physics I (5A & 5C) [1]	4
CSC 1001 & 1001L	Fundamentals of Computer Science and Fundamentals of Computer Science Laboratory	4
MATH 1262	Calculus II	4
General Education Requirement (1B)		3
	Units	**15**
Second Year		
Term 1		
PHYS 1143	General Physics II	4
MATH 2263	Calculus III	3
General Education Requirement		3
General Education Requirement		3
General Education Requirement		3
	Units	**16**
Term 2		
PHYS 2211	General Physics III: Modern Physics	4
MATH 2341	Linear Analysis	4
General Education Requirement		3
General Education Requirement		3
	Units	**14**
Third Year		
Term 1		
PHYS 3305	Classical Mechanics I (Upper-Division 2/5) [1]	3
PHYS 3316	Instrumentation and Techniques of Experimental Physics [2]	4
PHYS 3320	Methods of Theoretical Physics	4
General Education Requirement		3
	Units	**14**
Term 2		
PHYS 3301	Statistical Mechanics	3
PHYS 3339	Communicating Physics	1
PHYS 3340	Quantum Physics Laboratory I [2]	1
PHYS 4408	Electromagnetic Fields and Waves I	3
General Education Requirement		3
Free Elective [2, 3, 4]		4
	Units	**15**
Fourth Year		
Term 1		
PHYS 3341	Quantum Physics Laboratory II [2]	1
PHYS 4405	Quantum Mechanics I	3
PHYS 4461 or PHYS 4461 ***and*** PHYS 4462	Senior Project I or Senior Project I ***and*** Senior Project II	2
General Education Requirement		3
Free Elective [2, 3, 4]		3
Free Elective [2, 3, 4]		3
	Units	**15**

Term 2		
Free Elective [2, 3, 4]		4
Free Elective [2, 3, 4]		4
Free Elective [2, 3, 4]		4
Free Elective [2, 3, 4]		4
	Units	**16**
	Total Units	**120**

1 Required in Major or Support; also satisfies General Education (GE) requirement.

2 Major courses with lab component may not be taken as CR/NC grading: PHYS 1143, PHYS 3316, PHYS 3323, PHYS 3340, PHYS 3341,PHYS 4428, ASTR 4444, or EE 4422.

3 If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.

4 Free Electives may need to be at the 3000-4000 level to ensure completion of the required minimum of 40 units of upper-division courses.