

## Physics (BS)

The following course sequence sheet is for illustrative purposes only and should not be construed as formal academic advisement. Course selections and sequence may vary depending on course availability and counsel from your academic adviser. You should consult an academic adviser before developing an actual academic plan.

<b>Cr.</b>	<b>First Semester</b>	<b>Cr.</b>	<b>Second Semester</b>
4	CHEM.115 Chemistry for Sciences I	4	CHEM.116 Chemistry for Sciences II
3	MATH.125 Calculus I or MATH.113 Pre-Calculus (if required based on testing)	3	MATH.126 Calculus II or MATH.125 Calculus I (if MATH.113 was required)
3	PHYSICS.123 Contemporary Physics	4	PHYSICS.211 General Physics I
3	ENGLISH.101 Composition I or General Education Group B (Social Sciences)	3	General Education Group B (Social Sciences) or ENGLISH.101 Composition I
1	INTSTUDY.100 Optional University Seminar	3	General Ed. Values, Ethics, Decision-Making
14	Total Semester Credits	17	Total Semester Credits
<b>Cr.</b>	<b>Third Semester</b>	<b>Cr.</b>	<b>Fourth Semester</b>
4	PHYSICS.212 General Physics II	3	PHYSICS.310 Modern Atomic Physics
3	2nd Level Writing Course	3	PHYSICS.314 Electricity & Magnetism
3	MATH.225 Calculus III or MATH.126 Calculus II (if MATH.113 was required)	3	MATH.322 Differential Equations or MATH.225 Calculus III (if MATH.113 was required)
3	General Education Group A (Humanities)	3	General Education Group A (Humanities)
3	General Education Group B (Social Sciences)	3	General Education Group B (Social Sciences)
16	Total Semester Credits	15	Total Semester Credits
<b>Cr.</b>	<b>Fifth Semester</b>	<b>Cr.</b>	<b>Sixth Semester</b>
4	PHYSICS.315 Electronics	3	PHYSICS.302 Mechanics: Dynamics
3	COMPSCI.116 Algorithmic Processes	4	PHYSICS.318 Optics
3	MATH.226 Calculus IV or MATH.322 Differential Eq (if MATH.113 was required)	3	Free Elective or MATH.226 Calculus IV (if MATH.113 was required)
3	300-level Physics Elective	3	300-level Physics Elective
3	General Education Communications	3	General Education Group A (Humanities)
16	Total Semester Credits	16	Total Semester Credits
<b>Cr.</b>	<b>Seventh Semester</b>	<b>Cr.</b>	<b>Eighth Semester</b>

3	PHYSICS.422 Thermodynamics	2	PHYSICS.400 Advanced Physics Laboratory
3	PHYSICS.450 Introduction to Quantum Mechanics	3	300-level Physics Elective
3	300-level Physics Elective	3	General Education Group A (Humanities)
3	General Education Group B (Social Sciences)	4	Free Elective
1	General Education Fitness/Recreation Skills	1	General Education Fitness/Recreation Skills
13	Total Semester Credits	13	Total Semester Credits

TOTAL CREDITS: 120

**IMPORTANT NOTES:**

The sequence of General Education courses is an example only; they may be taken in any order. The number of free electives may vary depending on pre-requisite requirements and course choices.

For example, if one communications or values course is also counted as a group A or B, as allowed by General Education Policy, then take one additional Free Elective course.

Two of the courses selected for the Major, General Education OR Free Elective must also qualify as Diversity courses. See list of Diversity Courses and consult advisor