

*The following roadmap is a sample academic planning resource. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

College: College of Natural Sciences and Mathematics

Degree: BS – Bachelor of Science

Major: Physics (Applied Physics)*

Term #	Course #	Course Title	Units
1	MATH 30	Calculus I	4
	X	General Education Requirement Area A1	3
	X	General Education Requirement Area B2	3
	X	General Education Requirement Area C1	3
	X	General Education Requirement Area E	3
Semester Total			16
2	MATH 31	Calculus II	4
	PHYS 11A	General Physics: Mechanics	4
	ENGL 5	Accelerated Academic Literacies	3
	X	General Education Requirement Area C2	3
Semester Total			14
3	PHYS 11C	General Physics: Electricity and Magnetism	4
	MATH 32	Calculus III	4
	MATH 45	Differential Equations for Science and Engineering	3
	X	General Education Requirement Area A3	3
Semester Total			14
4	PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
	X	General Education Requirement Area C	3
	X	General Education Requirement Area F	3
	ENGL 20	College Composition II	3
	X	American Institutions (US HIST)	3
Semester Total			16

*The following roadmap is a sample academic planning resource. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

Term #	Course #	Course Title	Units
5	PHYS 105	Mathematical Methods in Physics	3
	PHYS 106	Introduction to Modern Physics	3
	PHYS 115	Electronics and Instrumentation	4
	CSC 25	Introduction to C Programming	3
	CHEM 1E	General Chemistry for Engineering	4
		Semester Total	17
6	PHYS 110	Classical Mechanics	3
	PHYS 124	Thermodynamics and Statistical Mechanics	3
	PHYS 135	Electricity and Magnetism	3
	X	Upper Division General Education Requirement Area C +Writing Intensive	3
	ENGR 45	Engineering Materials	3
		Semester Total	15
7	PHYS 150	Quantum Mechanics	3
	PHYS 162	Scientific Computing: Modeling, Simulation, and Visualization	3
	X	PHYS Major Elective	3
	X	American Institutions (GOVT)	3
	X	Upper Division General Education Requirement Area B5	3
		Semester Total	15
8	PHYS 175	Advanced Physics Laboratory	2
	X	Instrumentation/Computing Elective	3
	X	PHYS Major Elective	3
	X	PHYS Major Elective	3
	X	Upper Division General Education Requirement Area D	3
		Semester Total	14