

Sample Plan – Physics-Atom/Mole/Opt/Con Matter

Year 1	Semester 1 (16 Units)	PHYS 08/08H & 08L Introductory Physics I (4 units)	MATH 021 Calculus I for Physical Sciences & Engineering (4 units)	SPARK Seminar (4 units)	CHEM 02/02H General Chemistry I (4 units)
	Semester 2 (14 Units)	PHYS 09/09H & 09L Introductory Physics II (4 units)	MATH 022 Calculus II for Physical Sciences & Engineering (4 units)	WRI 10 College Reading & Composition (4 units)	CSE 20/MATH 50 Intro to Computing I or Beginning MATLAB Programming (2 units)
Year 2	Semester 3 (16 Units)	PHYS 10 Introductory Physics III (4 units)	PHYS 108 Thermal Physics Core (4 units)	MATH 24 Linear Algebra & Differential Equations (4 units)	GE Approaches to Knowledge Area B (4 units)
	Semester 4 (18 Units)	PHYS 105 Analytics Mechanics Core (4 units)	PHYS 126 Special Relativity Minicourse (2 units)	MATH 023 Vector Calculus (4 units)	LD Science or Engineering Elective (4 units)
Year 3	Semester 5 (16 Units)	PHYS 110 Electrodynamics Core (4 units)	PHYS 137 Quantum Mechanics Core (4 units)	MATH 032 Probability and Statistics (4 units)	GE Approaches to Knowledge Area B (4 units)
	Semester 6 (14 Units)	PHYS 115 Electrodynamics Core Waves II Waves (4 units)	PHYS 138 Quantum Mechanics II Core (2 units)	PHYS 160 Modern Physics Lab (4 units) *Writing in Discipline	UD AMO/CM Emphasis Elective (4 units)
Year 4	Semester 7 (14 Units)	PHYS 195 or ENGR 193 (2 units)	UD AMO/CM Emphasis Elective (4 units)	Free Elective (4 units)	Crossroads Course (4 units)
	Semester 8 (14 Units)	PHYS 196 or ENGR 194 (2 units)	UD AMO/CM Emphasis Elective (4 units)	Free Elective (4 units)	Free Elective (4 units)

Major Requirement Only
 General Education Requirement Only
 Major Requirement and General Education Requirement
 Free Elective units
 Meets Badge

- This sample plan demonstrates the recommended sequencing and timing of the required and elective components within the major.
- In many cases, a student's academic background will require variations in the timing of the coursework listed in the plan.
- All students are expected to work with their academic advisor to find their best pathway through the degree requirements of their chosen program.