

Sample Plan and Course Flow Chart Template – Physics-Custom Emphasis

Year 1	Semester 1 (16 Units)	PHYS 08/08H 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 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 SCI/ENGR 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	Free Elective (4 units)
Year 4	Semester 7 (14 Units)	PHYS 195 Upper Division Undergraduate Research (2 units)	UD Custom Emphasis Elective (4 units)	Free Elective (4 units)	Crossroads Course (4 units)
	Semester 8 (14 Units)	PHYS 196 Undergraduate Thesis (2 units) *Integrative Culminating Experience	UD Custom Emphasis Elective (4 units)	UD Custom Emphasis 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.