

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

Year 1	Semester 1 (16 Units)	PHYS 08/08H & 08L Introductory Physics I and Lab (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 and Lab (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) <b>*Writing in Discipline</b>	Free Elective (4 units)
Year 4	Semester 7 (14 Units)	PHYS 195 or ENGR 193 (2 units)	UD Custom Emphasis Elective (4 units)	Free Elective (4 units)	Crossroads Course (4 units)
	Semester 8 (14 Units)	PHYS 196 or ENGR 194 (2 units)	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.