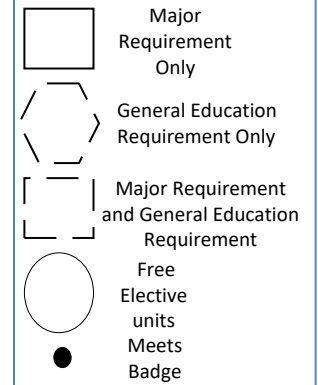


Sample Plan and Course Flow Chart Template – Applied Math-Engineering

		Year 1			
Year 1	Semester 1 (16 Units)	MATH 021 Calculus I for Physical Sciences & Engineering (4 units)	CHEM 02/02H General Chemistry (4 units)	CSE 22 or ME 21 Intro to Programming / Engineering Computing (4 units)	SPARK Seminar (4 units)
	Semester 2 (16 Units)	MATH 022 Calculus II for Physical Sciences & Engineering (4 units)	WRI 10 College Reading & Composition (4 units)	Approaches to Knowledge Area B (4 units)	PHYS 08/08H & 08L Introductory Physics I & Lab (4 units)
Year 2	Semester 3 (16 Units)	MATH 023 Vector Calculus (4 units)	Approaches to Knowledge Area B (4 units)	BIO/ESS Requirement (4 units)	PHYS 09/09H & 09L Introductory Physics II & Lab (4 units)
	Semester 4 (16 Units)	MATH 024 Linear Algebra & Differential Equations (4 units)	MATH 032 Probability and Statistics (4 units)	ENGR 57 Statics and Dynamics (4 units)	Approaches to Knowledge Area B (4 units)
Year 3	Semester 5 (16 Units)	MATH 130 Numerical Analysis (4 units)	MATH 125 Intermediate Differential Equations (4 units) *Crossroads Requirement	UD ENGR Emphasis Elective (4 units)	Free Elective (4 units)
	Semester 6 (16 Units)	MATH 126 Partial Differential Equations (4 units)	UD ENGR Emphasis Elective (4 units)	Writing in Discipline (4 units)	Free Elective (4 units)
Year 4	Semester 7 (16 Units)	MATH 122 Complex Variables (4 units)	MATH 141 Linear Analysis I (4 units)	UD ENGR Emphasis Elective (4 units)	Free Elective (4 units)
	Semester 8 (12 Units)	MATH 132/MATH 146 Numerical Methods Diff Eq./Numerical Linear Algebra (4 units)	MATH 150 Mathematical Modeling (4 units) *Integrative Culminating Experience		Free Elective (4 units)



- 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.