UNIVERSITY OF CALIFORNIA MERCED | SCHOOL OF NATURAL SCIENCES UNDERGRADUATE ADVISING

Template 1

Sample Plan and Course Flow Chart Template – Applied Math-Comp Data

Year 1	Semester 1 (16 Units)	MATH 021 Calculus I for Physical Sciences & Engineering (4 units)	SPARK Seminar (4 units)	CHEM 02/02H General Chemistry I (4 units)	ME 21 Engineering Computing (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 Introductory Physics I (4 units)
Year 2	Semester 3 (16 Units)	MATH 24 Linear Algebra & Differential Equations (4 units)	Approaches to Knowledge Area B (4 units)	BIO 01 or ESS 01 Requirement (4 units)	PHYS 09/09H Introductory Physics II (4 units)
	Semester 4 (16 Units)	MATH 023 Vector Calculus (4 units)	MATH 032 Probability and Statistics (4 units)	Approaches to Knowledge Area B (4 units)	Free Elective (4 units)
Year 3	Semester 5 (16 Units)	MATH 130 Numerical Analysis (4 units)	MATH 141 Linear Analysis I (4 units)	MATH 180 Modern Applied Statistics (4 units)	Free Elective (4 units)
	Semester 6 (12 Units)	MATH 181 Stochastic Processes (4 units)	MATH 146 Numerical Linear Algebra (4 units)		Writing in Discipline (4 units)
Year 4	Semester 7 (12 Units)	MATH 122 Complex Variables (4 units)	MATH 125 Intermediate Differential Equations (4 units) ***Crossroads Requirement**		Free Elective (4 units)
	Semester 8 (16 Units)	MATH 132 Numerical Methods Differential Equations (4 units)	MATH 126 Partial Differential Equations (4 units)	MATH 150 Mathematical Modeling (4 units) ***Integrative Culminating Exeperience**	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.

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