APPLIED MATHEMATICS MINOR

The Applied Mathematics minor (MAPM) provides a focus for students who are interested in the subject and want to integrate an aspect of applied mathematics with their major. To earn a minor, the student must complete three core courses and two elective courses, all with a grade of "C" or higher.

Course	Title	Credits
Required Courses		**12 credits**
Select one (1) course from the following courses:		
MATH2025	MULTIVARIABLE CALCULUS	4
MATH2500	DIFFERENTIAL EQUATIONS	4
MATH2750	DIFFERENTIAL EQUATIONS & SYSTEMS MODELING	4
and complete the following two courses:		
MATH2100	PROBABILITY & STATISTICS FOR ENGINEERS	4
MATH2860	LINEAR ALGEBRA & MATRIX THEORY	4
Elective Requirement		**8 credits**
Select two of the following:		
MATH1950	FINANCIAL MATHEMATICS	4
MATH2200	ADVANCED STATISTICS	4
MATH2250	TIME SERIES	4
MATH2300	DISCRETE MATHEMATICS	4
MATH2425	CRYPTOLOGY	4
MATH3150	STOCHASTIC PROCESSES	4
MATH3225	FUNCTIONAL ANALYSIS	4
MATH3200	DIFFERENTIAL GEOMETRY	4
MATH3250	HAZARD & CATASTROPHE MODELING	4
MATH3500	CALCULUS IV	4
MATH3700	OPERATIONS RESEARCH	4
MATH3800	SPECIAL TOPICS IN APPLIED MATHEMATICS	4
MATH3900	NUMERICAL ANALYSIS I	4
MATH3950	NUMERICAL ANALYSIS II	4
MATH4100	INDUSTRIAL PROBLEMS IN APPLIED MATHEMATICS	4
MATH4400	INTRODUCTION TO ABSTRACT ALGEBRA	4
MATH4475	ACTUARIAL MATHEMATICS	4
MATH4575	COMPLEX VARIABLES	4
MATH4875	REAL ANALYSIS I	4
MATH4975	REAL ANALYSIS II	4
MATH4900	PARTIAL DIFFERENTIAL EQUATIONS	4
MATH4950	DYNAMICAL SYSTEMS AND CHAOS	4
MATH4050	MACHINE LEARNING	4
or COMP4050	MACHINE LEARNING	
Total Credits		**20**

Please note that the above minor elective list is not necessarily exhaustive. Additional options will be added as new courses are developed in the Applied Mathematics minor. Students with an Applied Mathematics minor will be notified by the School of Computing and Data Science of additional mathematics course offerings as they become available.