The minor in Applied Mathematics requires 20 semester credit hours.

Code	Title	Hours
Required Courses		
MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
Choose 12 hours from the following:		12
Prescribed Electives		
MATH 2393	Calculus III	
MATH 3305	Introduction to Probability and Statistics [1]	
MATH 3323	Differential Equations	
MATH 3324	Applied Multivariate Statistics	
MATH 3348	Deterministic Operations Research	
MATH 3376	Applied Linear Algebra [2]	
MATH 3377	Linear Algebra [2]	
MATH 3398	Discrete Mathematics II	
MATH 3383	Numerical Analysis I	
MATH 4305	Advanced Probability and Statistics	
MATH 4306	Fourier Series and Boundary Value Problems	
MATH 4327	Introduction to Complex Analysis and Its Applications	
MATH 4336	Studies in Applied Mathematics	
MATH 4337A	Topological Data Analysis	
MATH 4337B	Research in Discrete Mathematics	
MATH 4337C	Numerical Methods for Ordinary Differential Equations	
MATH 4337F	Undergraduate Research in Autonomous Systems	
MATH 4337H	Undergraduate Research in Topology and Artificial Neural Networks	
MATH 4350	Introduction to Combinatorics	
MATH 4383	Numerical Analysis II	
MATH 4393	Introduction to Finite Element Methods	
Students may complete one of the following:		
CS 3378	Theory of Automata	
ENGR 2301	Statics	
IE 3320	Engineering Statistics [2]	
PHYS 3320	Introduction to Mathematical Physics	
Total Hours		**20**

[1] Students may not receive credit for both MATH 3305 and IE 3320.

[2] Students may not receive credit for both MATH 3376 and MATH 3377. Students with this minor are encouraged to take MATH 3376.