

Master of Science in Mathematics

Master of Science in Mathematics - Non-Thesis

Master of Science in Mathematics - Non-Thesis	Hours
5000 - Level Courses	
MATH 5101 - Advanced Calculus	3
MATH 5270 - Introduction to Optimization	3
MATH 5301 - ANOVA and Experimental Design	3
MATH 5304 - Intro to Regression Analysis	3
MATH 5311 - Intro to Mathematical Statistics	3
MATH 5373 - Data Analytics	3
MATH 5385 - Statistical Learning	3
MATH 5410 - Quantum Nonlocality and Computing	3
MATH 5511 - Linear Algebra	3
MATH 5611 - Topology	3
MATH 5801 - Actuarial Probability I	3
MATH 5802 - Actuarial Probability II	3
MATH 5803 - Financial Math I	3
6000 - Level Courses (At least 18 hours)	
MATH 6311 - Mathematical Statistics I	3
MATH 6312 - Mathematical Statistics II	3
MATH 6331 - Categorical Data Analysis	3
MATH 6362 - Reliability Theory	3
MATH 6373 - Advanced Data Analytics	3
MATH 6375 - Advanced Statistical Learning	3
MATH 6382 - Statistical Analysis of Survival Data	3
MATH 6385 - Longitudinal Data Analysis	3
MATH 6450 - Measure and Integration	3
MATH 6490 - Topics in Analysis**	3
Non- Math Courses (Up to 9 hours)	
	3
	3
	3
Total Credits Required:	36
Comments:	
<p style="text-align: center;">Must complete at least 18 hours of 6000-level or higher courses in the Mathematics Department. Up to nine non-math hours can be used toward the degree and these courses must be math-oriented or direct applications of math and must be approved by the Graduate Advisory Committee of the Mathematics Department.</p>	

Master of Science in Mathematics - Thesis

Master of Science in Mathematics - Thesis	Hours
MATH 7000 - Thesis Research	3 - 6
5000 - Level Courses	
MATH 5101 - Advanced Calculus	3
MATH 5270 - Introduction to Optimization	3
MATH 5301 - ANOVA and Experimental Design	3
MATH 5304 - Intro to Regression Analysis	3
MATH 5311 - Intro to Mathematical Statistics	3
MATH 5373 - Data Analytics	3
MATH 5385 - Statistical Learning	3
MATH 5410 - Quantum Nonlocality and Computing	3
MATH 5511 - Linear Algebra	3
MATH 5611 - Topology	3
MATH 5801 - Actuarial Probability I	3
MATH 5802 - Actuarial Probability II	3
MATH 5803 - Financial Math I	3
6000 - Level Courses (At least 18 hours)	
MATH 6311 - Mathematical Statistics I	3
MATH 6312 - Mathematical Statistics II	3
MATH 6331 - Categorical Data Analysis	3
MATH 6362 - Reliability Theory	3
MATH 6373 - Advanced Data Analytics	3
MATH 6375 - Advanced Statistical Learning	3
MATH 6382 - Statistical Analysis of Survival Data	3
MATH 6385 - Longitudinal Data Analysis	3
MATH 6450 - Measure and Integration	3
MATH 6490 - Topics in Analysis**	3
Non- Math Courses (Up to 9 hours)	
	3
	3
	3
Total Credits Required:	30
Comments:	
<p style="text-align: center;">Must complete at least 18 hours of 6000-level or higher courses in the Mathematics Department. Up to nine non-math hours can be used toward the degree and these courses must be math-oriented or direct applications of math and must be approved by the Graduate Advisory Committee of the Mathematics Department.</p>	