

# M.S. IN APPLIED AND COMPUTATIONAL MATHEMATICS

*College of the Sciences and Mathematics*

Code	Title	Credits
<b>Required Courses</b>		
MAT 500	Fundamentals of Applied Mathematics	3
MAT 548	Industrial Mathematics - Continuous Models	3
MAT 549	Industrial Mathematics - Discrete Models	3
MAT 552	Operations Research	3
MAT 553	Stochastic Modeling	3
MAT 554	Scientific Computing	3
MAT 555	Industrial Practicum - Continuous Models	3
STA 505	Mathematical Statistics I	3
MAT 556	Industrial Practicum - Discrete Models	3
STA 511	Intro Stat Computing & Data Management	3
<b>Electives</b>		
One three-credit elective must be chosen from one of the following		3
MAT 514	Theory of Numbers	
MAT 515	Algebra I	
MAT 516	Algebra II	
MAT 532	Geometry I	
MAT 533	Geometry II	
MAT 535	Topology	
MAT 545	Real Analysis I	
MAT 546	Real Analysis II	
MAT 575	Complex Analysis I	
An additional three credit elective must be chosen from any 500-level mathematics or statistics course not completed from the above list.		3
<b>Total Credits Required</b>		<b>36</b>