

Department of Engineering, Mathematics, and Physics  
 Three-year Mathematics Graduate Courses Schedule (Fall 2011 – Summer I 2015)

Course # and Title	F 11	Sp 12	Sr I 12	F 12	Sp 13	Sr I 13	F 13	Sp 14	Sr I 14	F 14	Sp 15	Sr I 15
Required courses												
MATH 5305 Real Analysis I	3				3					3		
MATH 5320 Complex Variables I				3				3				
MATH 5330 Abstract Algebra I		3					3				3	
MATH 5365 Topology		3					3				3	
MATH 5370 Mathematical Modeling	3				3					3		
MATH 5375 Probability				3				3				
Elective courses												
MATH 5303 Number Theory I										3		
MATH 5306 Linear Algebra								3				
MATH 5312 Functional Analysis I											3	
MATH 5315 Combinatorics				3								
MATH 5316 Graph Theory	3											
MATH 5340 Differential Geometry												
MATH 5350 Ordinary Differential Equations I		3										
MATH 5355 Advanced Topics in Mathematics	On demand											
MATH 5360 Partial Differential Equations					3							
MATH 5367 Numerical Methods for PDE I							3					
Three semester hours from:												
MATH 5191 Mathematics Seminar		1				1			1			1
MATH 5252 Internship in Mathematics												
MATH 5290 Research Methods in Mathematics			2			2			2			2
Thesis												
MATH 5398 Thesis I	3	3	3	3	3	3	3	3	3	3	3	3
MATH 5399 Thesis II	3	3	3	3	3	3	3	3	3	3	3	3