

MA/MS in Mathematics

Courses and Activities Mapped to MA/MS in Mathematics Outcome Set

1. Students will learn to use and construct mathematical proofs.				2. Students will communicate mathematics effectively.				3. Students will demonstrate that they are ready to use their mathematical skills in a post-master's position.	
1.1 Students will construct direct proofs.	1.2 Students will construct proofs by contradiction.	1.3 Students will construct proofs by induction.	1.4 Students will construct examples and counterexamples.	2.1 Students will state mathematical results accurately for a research problem.	2.2 Students will conduct an independent investigation of their problem.	2.3 Students will make an oral presentation of their research report that is accessible to their peers.	2.4 Students will make a detailed written report of their research.	3.1 Students will be polled after graduation to determine whether they planned to pursue further studies, had an offer of employment, etc.	3.2 Students will demonstrate mastery of mathematics and related content that will allow them to pursue careers utilizing their knowledge.

Courses and Learning Activities

MATH 511 Theory of Numbers	I	I	I	I	I				
MATH 515 Linear Algebra II	P	P	P	P	P				
MATH 526 Topology I	P	P	P	P	P				
MATH 530 Real Variables I	P	P	P	P	P				
MATH 531 Complex Variables I	P	P	P	P	P				
MATH 536 Numerical Analysis I					P				

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MATH 537 Mathematical Modeling	P	P	P		P					
MATH 541 Theory of Probability					P					
MATH 542 Mathematical Statistics					P					
MATH 590 Topics in Mathematics	P	P	P							
MATH 612 Commutative Algebra	P	P	P	P	P	P	P	P	P	P
MATH 621 Modern Geometries	P	P	P	P	P				P	P
MATH 627 Topology II	P	P	P	P	P	P	P	P	P	P
MATH 637 Numerical Analysis II	P	P	P	P	P				P	P
MATH 640 Graph Theory	P	P	P	P	P	P	P	P	P	P
MATH 646 Lin. Program. & Optimiz.	P	P	P	P	P				P	P

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MATH 650 Topics in Mathematics	P	P	P							
MATH 660 Real Variables II	P	P	P	P	P	P	P	P	P	P
MATH 661 Complex Variables II	P	P	P			P	P	P	P	P
MATH 696 Mathematics Research	R	R	R	R	R	R	R	R	R	R
MATH 699 Master's Thesis	R	R	R	R	R	R	R	R	R	R

Legend: I Introduced P Practiced R Reinforced

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