

**Advising Form: 2018-2019**

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_

Term Admitted: \_\_\_\_\_ Last Updated: \_\_\_\_\_

The MS Mathematics degree consists of three parts: Core courses (11 units), Electives (15 units), and Master's Thesis (6 units) for a total of 32 minimum units required.

Students must obtain a grade of B- or better in order for courses to be applied to the MS in Mathematics degree. Students must receive a grade of B or better in at least 2 units of MATH 597 or MATH 598 to satisfy the Graduate Writing Assessment requirement (GWAR) necessary for graduation

MS Mathematics Curriculum	Units	Instit.	Course	Units	Grade	Term	Comments
<b>Core Requirements (11 units)</b>							
MATH 511 Functional Analysis	3						
MATH 512 Probabilistic Methods & Measure Theory	3						
MATH 513 Advanced Algebra	3						
MATH 599 Graduate Seminar	1						
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<b>Electives (15 units)</b>							
<b>Choose at least <u>two</u> electives from the following list:</b>							
MATH 570 Combinatorics	3						
MATH 582 Number Theory and Cryptography	3						
MATH 584 Algebraic Geometry and Coding Theory	3						
MATH 587 Markov Chains and Markov Processes	3						
MATH 588 Stochastic Analysis	3						
MATH 590 Graduate Topics in Mathematics	3						

**Choose at least three electives from the following list:**

MATH 555 Actuarial Sciences	3						
MATH 565 Research in Mathematics Education	3						
PHYS/COMP/MATH 510 Advanced Image Analysis Techniques	3						
PHYS/COMP/MATH 546 Pattern Recognition	3						
COMP/MATH 554 Algorithms	3						
COMP 569 Artificial Intelligence	3						
COMP 571 Biologically Inspired Computing	3						
COMP 572 Neural Networks	3						
COMP 575 Multi-Agent Systems	3						
COMP 578 Data Mining	3						
MATH 594 – Independent Study and other graduate courses from mathematics or the mathematical sciences may be included with the graduate advisors approval.							
MATH 594 Independent Study	1-3						
<b>Thesis/Project (Minimum 6 units)</b>							
MATH 597/ 598 Master's Thesis/ Masters Project	6						

**Advising Notes:**

Reviewed

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 Ivona Grzegorzczuk, PhD  
 Program Director, MS Mathematics