Mathematics MS requirements Indiana State University

1. Foundation: Take at least one of:	
☐ MATH 510 Introduction to Analysis☐ MATH 512 Abstract Algebra☐ MATH 513 Linear Algebra	
2. Core courses: Take at least three of:	
 □ MATH 511 Theory of Numbers □ MATH 526 Topology I □ MATH 530 Real Variables I □ MATH 531 Complex Variables I □ MATH 533 Partial Differential Equations □ MATH 536 Numerical Analysis I □ MATH 537 Mathematical Modeling □ MATH 541 Theory of Probability □ MATH 542 Mathematical Statistics 	 □ MATH 612 Commutative Algebra □ MATH 613 Applied Linear Algebra □ MATH 625 Dynamical Systems □ MATH 640 Graph Theory □ MATH 646 Linear Programming and Optimization
3. Electives: Courses at the 500 or 600-level courses with the MATH prefix:	
□ MATH 5	□ MATH 6
□ MATH 5	□ MATH 6
□ MATH 5	□ MATH 6
□ MATH 5	□ MATH 6
□ MATH 5	□ MATH 6
4. Research: Take at least three hours of:	☐ MATH 695 Mathematics Research
5. Credits:	
☐ At least half of the credits must be taken at the 600 level or higher ☐ A minimum of 33 credits must completed	