

Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

MA/MS Mathematics

Spring 2020

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Outcome	Related Foundational Studies or Graduate Goal
Students will learn to use and construct mathematical proofs	
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	
Students will communicate mathematics effectively	
2.1 Students will state mathematics 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	
Students will demonstrate that they are ready to use their mathematical skills in a post-master's position	
3.1 Students will be polled after graduation to determine whether they plan 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	
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