

Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

BA/BS Mathematics

Spring 2020

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Outcome	Related Foundational Studies or Graduate Goal
Use and Construct Logical Arguments	
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/counterexamples	
Communicate Mathematics Effectively	
2.1 State mathematical results accurately: Students will state mathematical results accurately for a research problem	
2.2 Conduct an independent investigation: Students will conduct an independent investigation of their problem	
2.3 Oral presentation of research: Students will make an oral presentation of their research report that is accessible to their peers	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
2.4 Written report of research: Students will make a detailed written report of their research	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
Ready to Use Mathematical Skills Post-Baccalaureate	

<p>3.1 Prepared to pursue graduate studies in math: Students will demonstrate mastery of undergraduate mathematics that will allow them to pursue graduate studies in the mathematical sciences.</p>	
<p>3.2 Prepared to pursue careers utilizing knowledge: Students will demonstrate mastery of mathematics and related content that will allow them to pursue careers utilizing their knowledge.</p>	