**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 |
<table>
<thead>
<tr>
<th>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.</th>
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<tbody>
<tr>
<td>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.</td>
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