**GENERAL CURRICULUM IN MATHEMATICS**

This is the default curriculum required for students who do not declare a concentration.

<table>
<thead>
<tr>
<th>Course Options</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>STAT 301 Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 305 Introduction to Probability and Simulation</td>
<td></td>
</tr>
<tr>
<td>or STAT 425 Probability Theory</td>
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**Tracks**

Choose three tracks from the following list, with at least one track chosen from the first four tracks listed. A track consists of two paired courses representing depth of study with a particular focus.  

1. **MATH 413 & MATH 414** Introduction to Analysis II and Introduction to Analysis III  
2. **MATH 482 & MATH 483** Abstract Algebra II and Abstract Algebra III  
3. **MATH 406 & MATH 413** Linear Algebra III and Introduction to Analysis II  
4. **MATH 482 & MATH 413** Abstract Algebra II and Introduction to Analysis II  
5. **MATH 304 & MATH 404** Vector Analysis and Introduction to Differential Geometry  
6. **MATH 335 & MATH 435** Graph Theory and Discrete Mathematics with Applications I  
7. **MATH 344 & MATH 416** Linear Analysis II and Differential Equations II  
8. **MATH 406 & MATH 408** Linear Algebra III and Complex Analysis I  
9. **MATH 408 & MATH 409** Complex Analysis I and Complex Analysis II  
10. **MATH 437** Game Theory  
11. **MATH 440** Topology I  
12. **MATH 442** Euclidean Geometry  
13. **MATH 443** Modern Geometries  
14. **MATH 451** Numerical Analysis I  
15. **MATH 452** Numerical Analysis II  
16. **MATH 453** Numerical Optimization  
17. **STAT 301** Statistics I  
18. **STAT 302** Statistics II  
19. **STAT 425** Probability Theory  
20. **STAT 426** Estimation and Sampling Theory  
21. **STAT 435** Discrete Mathematics with Applications I  
22. **STAT 470** Selected Advanced Topics  
23. **MATH 475** Advanced Topics in Mathematics  
24. **PHYS 132** General Physics II  
25. **PHYS 301** Thermal Physics I  
26. **PHYS 322** Vibrations and Waves  
27. **PHYS 323** Optics  
28. **MATH 482** Abstract Algebra II  
29. **MATH 483** Abstract Algebra III  
30. **PHYS 211** Modern Physics I  
31. **PHYS 302** Classical Mechanics I  
32. **PHYS 332** Vibrations and Waves  
33. **PHYS 333** General Physics III  
34. **PHYS 405** Quantum Mechanics I  
35. **PHYS 408** Electromagnetic Fields and Waves I  
36. **STAT 301** Statistics I  
37. **STAT 302** Statistics II  
38. **STAT 305** Introduction to Probability and Simulation  
39. **STAT 425** Probability Theory  
40. **STAT 426** Estimation and Sampling Theory  
41. **STAT 427** Mathematical Statistics

| Total units | 44 |

1. A single course cannot be used to satisfy multiple tracks.  
2. Maximum 8 units combined between MATH 475 and MATH 476.