Applied Mathematics Option

M 171Q Calculus I 4
or M 181Q Honors Calculus I
M 172Q Calculus II 4
or M 182Q Honors Calculus II
M 221 Introduction to Linear Algebra 3
M 242 Methods of Proof 3
M 273Q Multivariable Calculus 4
or M 283Q Honors Multivariable Calculus
M 274 Introduction to Differential Equation 4
or M 284 Honors Introduction to Differential Equations
M 383 Introduction to Analysis I 3
M 384 Introduction to Analysis II 3
M 386R Software Applications in Mathematics 3
M 441 Numerical Linear Algebra & Optimization 3

Choose six from the following math or statistics electives: * 18

M 333 Linear Algebra
M 348 Techniques of Applied Math I
M 349 Techniques of Applied Mathematics II
M 430 Mathematical Biology
M 431 Abstract Algebra I
M 442 Numerical Solution of Differential Equations
M 450 Applied Mathematics I
M 451 Applied Mathematics II
M 454 Introduction of Dynamical Systems I
M 455 Introduction to Dynamical Systems II
M 472 Introduction to Complex Analysis
M 476 Introduction to Topology
STAT 332 Statistics for Scientists and Engineers
STAT 421 Probability Theory
STAT 422 Mathematical Statistics
PHSX 220 Physics I (w/ calculus) ** 4
PHSX 222 Physics II (w/ calculus) ** 4

Total Credits 60

* At least nine credits must be 400 level.
** may be replaced with another mathematical application area with advisor approval.

A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above. Core 2.0 must be completed for graduation.

Freshman Year

<table>
<thead>
<tr>
<th>Course/Subject</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 101US - Knowledge and Community or COMX 111US - Introduction to Public Speaking</td>
<td>3</td>
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<tr>
<td>M 171Q - Calculus I or M 181Q - Honors Calculus I</td>
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<tr>
<td>PHSX 220 - Physics I (w/ calculus)</td>
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<tr>
<td>University Core and Electives</td>
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Sophomore Year

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<th>Spring Credits</th>
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<tbody>
<tr>
<td>M 221 - Introduction to Linear Algebra</td>
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<tr>
<td>M 273Q - Multivariable Calculus or M 283Q - Honors Multivariable Calculus</td>
<td>4</td>
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<tr>
<td>University Core and Electives</td>
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</tr>
<tr>
<td>M 274 - Introduction to Differential Equation or M 284 - Honors Introduction to Differential Equations</td>
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<td></td>
</tr>
<tr>
<td>M 242 - Methods of Proof</td>
<td>3</td>
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<td>University Core and Electives</td>
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Junior Year

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<th>Course/Subject</th>
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<th>Spring Credits</th>
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<tbody>
<tr>
<td>M 383 - Introduction to Analysis I</td>
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<tr>
<td>Math or Stat Elect (See List Above)</td>
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<tr>
<td>University Core and Electives</td>
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</tr>
<tr>
<td>M 384 - Introduction to Analysis II</td>
<td>3</td>
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<tr>
<td>M 386R - Software Applications in Mathematics</td>
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<td>Math or Stat Elect (See List Above)</td>
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Senior Year

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<th>Course/Subject</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>M 441 - Numerical Linear Algebra &amp; Optimization</td>
<td>3</td>
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<tr>
<td>Math or Stat Elect (See List Above)</td>
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<td>University Core and Electives</td>
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<tr>
<td>University Core and Electives</td>
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Total Program Credits: 120
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.