

# 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 333	Linear Algebra	3
M 383	Introduction to Analysis I	3
M 384	Introduction to Analysis II	3
M 431	Abstract Algebra I	3
<b>Choose six from the following math or stat electives: *</b>		18
M 348	Techniques of Applied Math I	
M 349	Techniques of Applied Mathematics II	
M 386R	Software Applications in Mathematics	
M 430	Mathematical Biology	
M 441	Numerical Linear Algebra & Optimization	
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
<b>Total Credits</b>		<b>60</b>

\* At least nine credits must be 400 level courses

\*\* 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.

	Credits	
	Fall	Spring
<b>Freshman Year</b>		
CLS 101US - Knowledge and Community	3	
M 171Q - Calculus I	4	
or M 181Q - Honors Calculus I		
PHSX 220 - Physics I (w/ calculus)	4	
University and Core Electives	4	
WRIT 101W - College Writing I		3
M 172Q - Calculus II		4
or M 182Q - Honors Calculus II		
PHSX 222 - Physics II (w/ calculus)		4

University Core and Electives		4
<b>Year Total:</b>	15	15
<b>Sophomore Year</b>		<b>Credits</b>
	<b>Fall</b>	<b>Spring</b>
M 242 - Methods of Proof	3	
M 273Q - Multivariable Calculus	4	
or M 283Q - Honors Multivariable Calculus		
University Core and Electives	8	
M 221 - Introduction to Linear Algebra		3
M 274 - Introduction to Differential Equation		4
or M 284 - Honors Introduction to Differential Equations		
Math or Stat Elective (See List Above)		3
University Core and Electives		4
<b>Year Total:</b>	15	14
<b>Junior Year</b>		<b>Credits</b>
	<b>Fall</b>	<b>Spring</b>
M 333 - Linear Algebra	3	
M 383 - Introduction to Analysis I	3	
Math or Stat Elect (See List Above)	3	
University Core and Electives	6	
M 384 - Introduction to Analysis II		3
Math or Stat Elect (See List Above)		3
University Core and Electives		9
<b>Year Total:</b>	15	15
<b>Senior Year</b>		<b>Credits</b>
	<b>Fall</b>	<b>Spring</b>
Math or Stat Elect (See List Above)	6	
University Core and Electives	9	
M 431 - Abstract Algebra I		3
Math or Stat Elect (See List Above)		3
University Core and Electives		10
<b>Year Total:</b>	15	16
<b>Total Program Credits:</b>		<b>120</b>

### **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.