

# MATHEMATICS MAJOR: STANDARD PROGRAM

## Program Requirements

All standard majors require a minor in a second discipline or a second major.

A minimum of 41 credits is required, including the 25-credit Mathematics Core:

Code	Title	Credits
<b>Mathematics Core</b>		
CS 190	Computer Science I	3
MATH 151	Calculus I (GT-MA1)	4
MATH 251	Calculus II	4
MATH 260	Applied Linear Algebra	3
MATH 451	Analysis I	3
MATH 471	Abstract Algebra I	3
MATH 495	Senior Seminar	2
Choose one of the following:		3
MATH 200	Discrete Mathematics	
MATH 220	Introduction to Advanced Mathematics	
<b>Total Credits</b>		<b>25</b>

And at least 16 credits from the following:

Code	Title	Credits
Select at least 16 credits from the following:		16
CS 191	Computer Science II	
MATH 213	Probability and Statistics (GT-MA1)	
MATH 252	Calculus III	
Any upper-division mathematics course excluding MATH 323, MATH 367, and MATH 390		
<b>Total Credits</b>		<b>16</b>

## College Algebra ready

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
HWTR 100	First Year Seminar	1
MATH 140	College Algebra (GT-MA1)	3
ENG 102	Writing and Rhetoric I (GT-CO1)	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
Elective	Elective/Minor	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
CS 190	Computer Science I	3
MATH 141	Precalculus (GT-MA1)	4
Gen Ed	Social Sciences	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
<b>Credits</b>		<b>16</b>
<b>Year Two</b>		
<b>Fall</b>		
MATH 151	Calculus I (GT-MA1)	4

MATH 260	Applied Linear Algebra	3
Gen Ed	Natural Sciences w/lab	4
Gen Ed	Social Sciences	3
Elective	Elective/Minor	1

**Credits 15**

<b>Spring</b>		
ENG 103	Writing and Rhetoric II (GT-CO2)	3
MATH 251	Calculus II	4
MATH Elective	MATH Elective	3
Gen Ed	Natural Sciences w/lab	4

**Credits 14**

<b>Year Three</b>		
<b>Fall</b>		
MATH 220	Introduction to Advanced Mathematics	3
MATH Elective	MATH Elective	3
Gen Ed	Social Sciences	3
Elective	Elective/Minor	6

**Credits 15**

<b>Spring</b>		
MATH Elective	MATH Elective (upper division)	6
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
Elective	Elective (upper division)/Minor	3

**Credits 15**

<b>Year Four</b>		
<b>Fall</b>		
MATH 451	Analysis I	3
Elective	MATH Elective (upper division)	3
Elective	Elective (upper division)/Minor	9

**Credits 15**

<b>Spring</b>		
MATH 471	Abstract Algebra I	3
MATH 495	Senior Seminar	2
Elective	Elective (upper division)/Minor	9

**Credits 14**

**Total Credits 120**

## Calculus Ready

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
HWTR 100	First Year Seminar	1
MATH 151	Calculus I (GT-MA1)	4
MATH 260	Applied Linear Algebra	3
ENG 102	Writing and Rhetoric I (GT-CO1)	3
Gen Ed	Arts & Humanities	3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
CS 190	Computer Science I	3
MATH 251	Calculus II	4
Gen Ed	Social Sciences	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
<b>Credits</b>		<b>16</b>
<b>Year Two</b>		
<b>Fall</b>		
MATH 220	Introduction to Advanced Mathematics	3
Gen Ed	Natural Sciences w/lab	4
Gen Ed	Social Sciences	3

2 Mathematics Major: Standard Program

Elective	Elective/Minor	6
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ENG 103	Writing and Rhetoric II (GT-CO2)	3
Elective	MATH Elective	3
Elective	MATH Elective (upper division)	3
Elective	Elective/Minor	3
Gen Ed	Natural Sciences w/lab	4
<b>Credits</b>		<b>16</b>
<b>Year Three</b>		
<b>Fall</b>		
Elective	MATH Elective	3
Elective	MATH Elective (upper division)	3
Elective	Elective/Minor	6
Gen Ed	Social Sciences	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MATH 471	Abstract Algebra I	3
Elective	MATH Elective (upper division)	3
Elective	Elective (upper division)/Minor	3
Elective	Elective (upper division)/Minor	3
Gen Ed	Arts & Humanities	3
<b>Credits</b>		<b>15</b>
<b>Year Four</b>		
<b>Fall</b>		
MATH 451	Analysis I	3
Elective	MATH Elective (upper division)	3
Elective	Elective/Minor	3
Elective	Elective (upper division)/Minor	6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MATH 495	Senior Seminar	2
Elective	Elective (upper division)/Minor	9
Elective	Elective/Minor	3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>121</b>