

# Mathematics & Statistics Curriculum Guides

The following are only examples of four-year Mathematics degree programs and are subject to change without notice. Students should consult a Mathematics program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Mathematics Emphasis
- Statistics Emphasis

## Mathematics

An example: Four year plan for **Mathematics Major with Mathematics Emphasis**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
Credits		13
<b>Spring</b>		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
Credits		15
<b>Junior</b>		
<b>Fall</b>		
MATH 305	Ordinary Differential Equations	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
Elective		3
Elective		3
Credits		17
<b>Spring</b>		
MATH 328	Abstract Algebra	3
General Ed		3
Elective		3

Elective		3
Elective		3
Credits		15
<b>Senior</b>		
<b>Fall</b>		
MATH 323	Analysis	4
Elective		3
Elective		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 385	Foundations of Geometry	3
MATH 355	Applied Mathematical Optimization	3
Math Upper Level Elective		3
Elective		3
Elective		3
Credits		15
Total Credits		124

## Statistics

An example: Four year plan for **Mathematics Major with Statistics Emphasis**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
Credits		16
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Spring</b>		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
Credits		15

<b>Junior</b>		
<b>Fall</b>		
MATH 323	Analysis	4
General Ed		3
General Ed		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 355	Applied Mathematical Optimization	3
General Ed		3
Elective		3
Elective		3
Elective		3
Credits		15
<b>Senior</b>		
<b>Fall</b>		
MATH 329	Applied Regression Analysis	4
MATH 360	Theory of Probability	3
Elective		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 361	Mathematical Statistics	3
Math Upper Level Elective		3
Elective		3
Elective		3
Elective		3
Credits		15
Total Credits		127