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
Freshman		
Fall		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
	Credits	**16**
Spring		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		3
	Credits	**17**
Sophomore		
Fall		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
	Credits	**13**
Spring		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
	Credits	**15**
Junior		
Fall		
MATH 305	Ordinary Differential Equations	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
Elective		3
	Credits	**14**
Spring		
MATH 328	Abstract Algebra	3
MATH 355	Applied Mathematical Optimization	3
General Ed		3

Elective		3
Elective		3
	Credits	**15**
Senior		
Fall		
MATH 323	Analysis	4
Elective		3
Elective		3
Elective		3
Elective		3
	Credits	**16**
Spring		
MATH 385	Foundations of Geometry	3
Math Upper Level Elective		3
Elective		3
Elective		3
Elective		3
	Credits	**15**
	Total Credits	**121**

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**
Freshman		
Fall		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		2
	Credits	**15**
Spring		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		2
	Credits	**16**
Sophomore		
Fall		
MATH 209	Multivariate Calculus	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
	Credits	**14**
Spring		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
	Credits	**15**
Junior		
Fall		
MATH 323	Analysis	4

MATH 360	Theory of Probability (if fall even; take a 3-credit elective otherwise)	3
General Ed		3
General Ed		3
Elective		3
	Credits	**16**
Spring		
MATH 355	Applied Mathematical Optimization	3
MATH 361	Mathematical Statistics (if spring odd; take a 3-credit elective otherwise)	3
General Ed		3
Elective		3
Elective		3
	Credits	**15**
Senior		
Fall		
MATH 329	Applied Regression Analysis	4
MATH 360	Theory of Probability (if fall even and not already taken; take a 3-credit elective otherwise)	3
Elective		3
Elective		3
Elective		3
	Credits	**16**
Spring		
MATH 361	Mathematical Statistics (if spring odd and not already taken; take a 3-credit elective otherwise)	3
Math Upper-level Elective (MATH 430: Design of Experiments or MATH 431: Multivariate Statistical Analysis)		4
Elective		3
Elective		3
	Credits	**13**
	Total Credits	**120**