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
MATH 260	Introductory Statistics	4
First Year Seminar		3
General Ed		3
	Credits	**14**
Spring		
MATH 203	Calculus and Analytic Geometry II	4
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
General Ed		3
Elective		3
	Credits	**16**
Sophomore		
Fall		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	**16**
Spring		
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	**16**
Junior		
Fall		
MATH 305	Ordinary Differential Equations	4
MATH 328	Abstract Algebra	3
General Ed		3
Elective		3
General Ed		3
	Credits	**16**
Spring		
MATH 355	Applied Mathematical Optimization	3
MATH 385	Foundations of Geometry	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 Upper Level Elective MATH 406 (Odd year); MATH 410 (Even year)		3
Elective		3
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
Freshman		
Fall		
MATH 202	Calculus and Analytic Geometry I	4
MATH 260	Introductory Statistics	4
First Year Seminar		3
General Ed		3
	Credits	**14**
Spring		
MATH 203	Calculus and Analytic Geometry II	4
MATH 306	Statistical Programming	3
General Ed		3
General Ed		3
Elective		3
	Credits	**16**
Sophomore		
Fall		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	**16**
Spring		
MATH 314	Proofs in Number Theory and Topology	3
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
	Credits	**16**
Junior		
Fall		
MATH 323	Analysis	4
MATH 360	Theory of Probability (Only Even years. Take an elective otherwise.)	3
General Ed		3
General Ed		3
Elective		3
	Credits	**16**

Spring

MATH 355	Applied Mathematical Optimization	3
MATH 361	Mathematical Statistics (Only Odd years. Take an elective otherwise.)	3
General Ed		3
General Ed		3
Elective		3
	Credits	**15**

Senior

Fall

MATH 329	Applied Regression Analysis	4
MATH 360	Theory of Probability (Only Even years. Take an elective otherwise.)	3
Elective		3
Elective		3
Elective		3
	Credits	**16**

Spring

MATH 361	Mathematical Statistics (Only Odd years. Take an elective otherwise.)	3
Math Upper-level Elective MATH 430 (Odd year); MATH 431 (Even year)		4
Elective		3
Elective		3
Elective		3
	Credits	**16**
	Total Credits	**125**