Credits

## **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**

Course

An example: Four year plan for  ${\bf Mathematics}~{\bf Major}$  with  ${\bf Mathematics}~{\bf Emphasis}$ 

120 credits necessary to graduate.

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

Title

Course	litle	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

Total Credits		124
	Credits	15
Elective		3
Math Upper Level Elective MATH 4	3	
Spring		
	Credits	16
Elective		3
MATH 323	Analysis	4
Fall		
Senior		

## **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 or MATH 329	Analysis (Only Odd years. Take MATH 329 otherwise.) or Applied Regression Analysis	4
MATH 360	Theory of Probability (Only Even years. Take an elective otherwise.)	3
General Ed		3
Elective		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 (Only Even years. Take MATH 323 otherwise.)	4
or MATH 323	or Analysis	
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 (Even year); MATH 43	31 (Odd year)	4
Elective		3
Elective		3
Elective		3
	Credits	16
	Total Credits	125