Title

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 **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.

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MATH 2021 Calcalus and Analysic Generial Ed Secretal Ed Se	Freshman		
Prior Year Seminar 3 3 3 3 3 3 3 3 3	Fall		
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MATH 203 Gaustus and Analytic Goorder 4 MATH 260 Introductory Statesics 4 General Ed 3 3 General Ed 5 3 Betker 6 6 6 7 Betker 6 76 7 7 Spokene 8 7 8 7 8 4 4 8 6 6 6 7 6 7 6 7 6 7 6 7		Credits	16
MATH 260 Geometry II of Introductory Statistics MATH 260 Interview Statistics	Spring		
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General Ed 3 General Ed 3 Elective 7 Sophomore Fall MATH 208 Muttivariate Calculus 4 General Ed 3 General Ed 6 3 Elective 6 7 4 MATH 314 Proofs in Number Theory and Topology 3 3 Blective 7 3		Geometry II	
General Ed 13 Elective Credits 17 Sophomore Fall Will variate Calculus 4 A MATH 208 Multivariate Calculus 4 6 enoral Ed 5 6 1 Sective 7 credits 13 8 product 7 credits 13 8 pecture 7 credits 13 8 pecture 3 14 8 pecture 4 14 8 pecture 4 14 8 pecture 4 14 8 pecture 4 14 9 pecture 4 14 1	MATH 260	Introductory Statistics	4
Elective Credits 17 Sophomore Fall MATH 2096 Multivariate Calculus 4 General Ed 3 3 General Ed 10 3 Elective Credits 13 Spring Proofs in Number Theory and Topology 3 Elective 3 3 Elective 4 3 Elective 5 3 Elective 7 3 Elective 5 3 Mark 4 4 Mark 4 4 Junior 1 5 Fall 4 4 MATH 305 Ordinary Differential Equations 6 MATH 326 A (2) 4 General Ed 5 4 Elective 1 5 MATH 328 A (2) 4 MATH 328 A (2) 4 MATH 328 A (3)	General Ed		3
Sophomore Credits 17 Fall MATH 209 Multivariate Calculus 4 General Ed 3 3 Specific 2 3 Spring Credits 13 MATH 314 Proofs in Number Theory and Topology 3 Secretal Ed 5 3 Secretal Ed 7 4 MATH 305 Credits 15 MATH 305 Credits 4 MATH 320 Linear Algebra and Matrix Theory 3 Spring 5 4 MATH 328 Abstract Algebra 3 MATH 328 Applied Mathematical Oplinitization 3	General Ed		3
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Fall Matt 209 Multivariat Calculus 4 General Ed 3 3 General Ed 5 3 Elective Credits 13 Spring Totalis 13 MATH 314 Proofs in Number Theory and Topology 3 Blective 3 3 Blective 5 3 Blective 6 15 Turber 7 3 Blective 7 3 Blective 7 3 Turber 7 3 MATH 305 Credits 4 Matrix Theory 3 3 Blective 5 4 Matrix Theory 4 3 Blective 6 7 4 Matrix Theory 1 4 <t< td=""><td></td><td>Credits</td><td>17</td></t<>		Credits	17
MATH 209 Multivariate Calculus 4 General Ed 3 General Ed	Sophomore		
MATH 209 Multivariate Calculus 4 General Ed 3 General Ed	Fall		
General Ed 13 Elective Credits 13 Spring MATH 314 Proofs in Number Theory and Topology 3 General Ed 3 3 Elective 3 3 Elective 3 3 Elective 5 3 Elective 6 15 Tunior 7 3 Fall 4 Equations MATH 305 Ordinary Differential Equations 4 Equations 4 4 General Ed Linear Algebra and Matrix Theory 4 General Ed 1 3 Elective 5 3 Elective 6 4 MATH 320 Credits 14 Spring A A MATH 323 A Destract Algebra 3 MATH 326 A Destract Algebra 3 MATH 327 A Destract Algebra 3 MATH 328 A Destract Algebra 3		Multivariate Calculus	4
General Ed 13 Elective Credits 13 Spring MATH 314 Proofs in Number Theory and Topology 3 General Ed 3 3 Elective 3 3 Elective 3 3 Elective 5 3 Elective 6 15 Tunior 7 3 Fall 4 Equations MATH 305 Ordinary Differential Equations 4 Equations 4 4 General Ed Linear Algebra and Matrix Theory 4 General Ed 1 3 Elective 5 3 Elective 6 4 MATH 320 Credits 14 Spring A A MATH 323 A Destract Algebra 3 MATH 326 A Destract Algebra 3 MATH 327 A Destract Algebra 3 MATH 328 A Destract Algebra 3	General Ed		3
Elective Credits 13 Spring MATH 314 Proofs in Number Theory and Topology 3 General Ed 3 3 Elective 3 3 Elective 3 3 Elective 5 3 Elective 5 3 Junior 5 4 Fall 7 4 MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed Equations 3 Elective 5 3 General Ed Energy Algebra and Matrix Theory 4 Spring 7 3 MATH 328 Abstract Algebra 3 MATH 325 Applied Mathematical Optimization 3	General Ed		
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Spring Proofs in Number Theory and Topology 3 General Ed 3 Elective 3 Elective 7 Elective 6 Total Ed 7 MATH 305 Ordinary Differential Equations 4 Equations 1 MATH 320 Inear Algebra and Autrix Theory 4 Elective 5 Elective 7 Spring 1 MATH 328 Abstract Algebra 3 MATH 329 Applied Mathematical Optimization 3		Credits	
MATH 314 Proofs in Number Theory and Topology 3 General Ed 3 Elective 3 Elective 3 Elective 6 Lictive 7 Verdits 15 Junior 7 Fall 7 MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed 1 3 Elective 5 3 Flocitye 7 4 MATH 326 Abstract Algebra 3 MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3	Spring		
General Ed 3 Elective 3 Elective 3 Elective 7 3 Elective Credits 15 Junior Totalts 15 Fall Ordinary Differential Equations 4 MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed 3 3 Elective 3 3 Spring Applied Mathematical Optimization 3		Proofs in Number Theory	3
Elective 3 Elective 3 Elective Credits 15 Junior Fall MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed 3 Elective 3 Elective Credits 14 Spring MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3			
Elective 3 Elective Credits 15 Junior Fall MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed To redits 3 Elective Credits 14 Spring MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3	General Ed		3
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Credits 15 Junior Fall MATH 305 Ordinary Differential Equations 4 Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 MATH 320 Credits 3 Elective 3 Credits 14 Spring MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3 Optimization ***********************************	Elective		3
Credits 15 Junior Fall MATH 305 Ordinary Differential Equations 4 Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 MATH 320 Credits 3 Elective 3 Credits 14 Spring MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3 Optimization ***********************************	Elective		3
Junior Fall MATH 305 Ordinary Differential Equations 4 MATH 320 Linear Algebra and Matrix Theory 4 General Ed 3 Elective 7 Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3 MATH 355 Applied Mathematical Optimization 3		Credits	
Fall MATH 305 Ordinary Differential Equations 4 Equations MATH 320 Linear Algebra and Matrix Theory 4 General Ed 3 3 Elective 7 3 Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3	Junior		
MATH 305 Ordinary Differential Equations 4 Equations MATH 320 Linear Algebra and Matrix Theory 4 Matrix Theory General Ed 3 Elective 3 Credits 14 Spring MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3			
MATH 320 Equations General Ed 3 Elective 3 Spring Credits 14 MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3		Ordinary Differential	4
Matrix Theory General Ed 3 Elective 5 Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3			
General Ed 3 Elective 3 Spring Credits 14 MATH 328 Abstract Algebra 3 MATH 355 Applied Mathematical Optimization 3	MATH 320	Linear Algebra and	4
Elective 3 Credits 14 Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3			
Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3	General Ed		3
Spring Abstract Algebra 3 MATH 328 Applied Mathematical Optimization 3	Elective		3
MATH 328 MATH 355 Applied Mathematical 3 Optimization		Credits	14
MATH 328 MATH 355 Applied Mathematical 3 Optimization	Spring		
MATH 355 Applied Mathematical 3 Optimization		Abstract Algebra	3
Optimization			
General Ed 3			
	General Ed		3

Elective		3
Elective		3
	Credits	15
Senior		
Fall		
MATH 323	Analysis	4
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

2

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
Spring	Credits	14
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)	3
General Ed		3
General Ed		3
Elective		3
Elective if not taking MATH 360		0
	Credits	16
Spring		
MATH 355	Applied Mathematical Optimization	3
MATH 361	Mathematical Statistics (if	3
	spring odd)	
General Ed		3
Elective		3
Elective		3
Elective if not taking MATH 361		0
	Credits	15
Senior		
Fall		
MATH 329	Applied Regression Analysis	4
MATH 360	Theory of Probability (if fall even and not already taken)	3
Elective		3
Elective		3
Elective if not taking MATH 360		3
	Credits	16
Spring		
MATH 361	Mathematical Statistics	3
	(if spring odd and not	
	already taken)	
Math Upper Level Elective (MATH 430 Design of Experiments or MATH 431 Multivariate Statistical Analysis)		4
Elective		3
Elective if not taking MATH 361		3
	Credits	13
	Total Credits	120