

Bachelor of Science in Mathematics with a Concentration in Statistics	
MAJOR REQUIREMENTS/MATHEMATICS: 49 Credits	Credits
MA120: Introduction to Mathematical Reasoning	4.0
MA125: Calculus with Analytic Geometry I	4.0
MA126: Calculus with Analytic Geometry II	4.0
MA211: Differential Equations	3.0
MA221: Linear Algebra	3.0
MA225: Calculus with Analytic Geometry III	4.0
MA314: Number Theory	3.0
or MA317: Geometry	
MA319: Probability and Statistics I	3.0
MA320: Probability and Statistics II	3.0
MA415: Real Analysis	3.0
MA419: Introduction to Mathematical Modeling	3.0
MA421: Applied Multivariate Regression and ANOVA	3.0
MA440: Applied Time Series Analysis	3.0
MA450: Computation and Statistics	3.0
MA460: Multivariate Statistics	3.0
MA LVL1: Gateway Exam 1	0.0
MA LVL2: Gateway Exam 2	0.0
MA LVL3: Gateway Exam 3	0.0
REQUIREMENTS OUTSIDE MAJOR: 8 to 10 Credits	Credits
<p><b>Choose either</b></p> <p><b>8 credits as follows:</b></p> <p>CE111: General Chemistry I 3.0</p> <p>CE111L: General Chemistry I Lab 1.0</p> <p>CE112: General Chemistry II 3.0</p> <p>CE112L: General Chemistry II Lab 1.0</p> <p><b>OR</b></p> <p><b>10 credits as follows:</b></p> <p>PH211: General Physics with Calculus I 4.0</p> <p>PH211L: General Physics with Calculus I Lab 1.0</p> <p>PH212: General Physics with Calculus II 4.0</p> <p>PH212L: General Physics with Calculus II Lab 1.0</p> <p><b>OR</b></p> <p><b>8 credits as follows:</b></p> <p>BY109: Introduction to Biodiversity and Evolution 4.0</p> <p>BY110: Introduction to Cell and Molecular Biology 4.0</p>	
FREE ELECTIVES: 30 to 32 Credits	Credits
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GENERAL EDUCATION REQUIREMENTS: 39 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0
Natural Sciences	Fulfilled in Outside Major Requirements with BY, CE or PH courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	3 Credits from courses designated with Course*Type: TL	3.0
Reasoned Oral Discourse	3 Credits from courses designated with Course*Type: RD* <i>*(May be fulfilled in Major requirements with MA314)</i>	3.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV	3.0
	<b>or</b> 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD	6.0
	<b>and</b> 3 Credits from courses designated with Course*Type: GU <b>or</b> 6 Credits from the SAME foreign language	
Experiential Education	Fulfilled in Major Requirements with MA419	0.0
Writing Intensive	Two courses from Mathematics (MA) designated with Course*Type: WT	0.0
		0.0

Minimum Credits for Bachelor of Science in Mathematics with a Concentration in Statistics = 128.0

**NOTES:**

\* 58 credits must be completed at the 200 level or higher.