

**Department of Mathematics**  
**Bachelor of Science in Mathematics (Statistics)**  
**Major Code: 0446**  
**Effective Date: 2019-2020 Academic Year**

**Curriculum Guide**

<b>Course</b>	<b>CR</b>	<b>Course</b>	<b>CR</b>
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
MATH 131: Calculus I (MLAR)	4	MATH 132: Calculus II (MLAR)	4
MATH 105: Ori for Fr and New Math Major	1	Foreign Language <sup>1</sup> /Elective	3
ENGL 100: Ideas and Their Expressions I (WC)	3	ENGL 101: Ideas and Their Expressions II (WC)	3
Foreign Language <sup>1</sup> /Elective	3	MATH 123: Discrete Mathematics I	3
Global Awareness <sup>2</sup> (GA)	3	MATH 106: Intro Math Reason Prob Solv	1
FRST 101: College Success (SS)	1	African American History and Culture <sup>3</sup> (AA)	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
MATH 231: Calculus III	4	MATH 211: Mathematical Logic & Proof Tec	4
MATH 240: Intro to Sci Pro for Math Major	3	PHYS 242: General Physics II (SR)	3
SPCH 250: Speech Fundamentals (HFA)	3	PHYS 252: General Physics II Lab (SR)	1
PHYS 241: General Physics I (SR)	3	Social/Behavioral Sciences <sup>4</sup> (SBS)	3
PHYS 251: General Physics I Lab (SR)	1	MATH 224: Intro Probability & Statistics	3
MATH 215: Intro to Math Lit and Re Tools	1		
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
MATH 320: History of Mathematics	3	MATH 340: Numerical Methods <b>or</b> MATH 365: Introduction to Data Science	3
MATH 351: Linear Algebra & Matrix Theo	3	MATH 341: Intro Differential Equations	3
STAT 324: Stat Methods for Data Analysis	3	STAT 328: Stat Models Predictive Analyssis	3
MATH 377: Intermediate Analysis I	3	Ethical Reasoning Elective <sup>5</sup>	3
Elective	3	Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
MATH 432: Intro to Applied Mathematics	3	MATH 496: Capstone Experience in Math	3
STAT 423: Probability Theory Appl	3	STAT 424: Statistical Inferences	3
STAT 425: Statistical Computing	3	Math Elective <sup>6</sup>	3
Electives	6	Electives	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Total Credit Hours: 120**

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<sup>1</sup>Two courses of FREN 101, FREN 102; **or** GERM 101, GERM 102; **or** SPAN 101, SPAN 102; **or** RUSS 101, RUSS102 taken in sequence.

<sup>2</sup>One course from: HIST 130, 207, 216 or 231, or PHIL 103 or 201

<sup>3</sup>One course from: HIST 103, 106 or 107, or LIBS 202, or MUSI 220.

<sup>4</sup>One course from: BUED 279, ECON 200 or 201, HIST 104 or 105, POLI 100, PSYC 101, or SOCI 100 or 200.

<sup>5</sup>One course from: PHIL 104, 201, 263, 316, 317, or 320.

<sup>6</sup>One course from: MATH 310, 323, 378, 411, 485 and STAT 426

## MAJOR PROGRAM REQUIREMENTS

***A student must earn a C or better grade except one passing grade below C if the student has GPA of at least 2.0 but less than 2.3, or two passing grades below C if the student has GPA of at least 2.3 in the following courses:***

Course	Course
MATH 105	MATH 340/365
MATH 106	MATH 341
MATH 123	MATH 351
MATH 131	MATH 377
MATH 132	MATH 496
MATH 215	STAT 324
MATH 211	STAT 328
MATH 224	STAT 423
MATH 231	STAT 424
MATH 240	STAT 425
MATH 320	Math/Stat Elective (1)