

**Department of Mathematics**  
**Bachelor of Science in Mathematics**  
**Major Code: MATH**  
**Effective Date: 2019-2020 Academic Year**

**Curriculum Guide**

Course	CR	Course	CR
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
MATH 131: Calculus I ( <i>MLAR</i> )	4	MATH 132: Calculus II ( <i>MLAR</i> )	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 ( <i>WC</i> )	3	ENGL 101: Ideas and Their Expressions II ( <i>WC</i> )	3
Foreign Language <sup>1</sup> /Elective	3	MATH 140 <sup>3</sup> : Fund of Sci Prog Python	3
Global Awareness <sup>2</sup> ( <i>GA</i> )	3	MATH 106: Intro Math Reason Prob Solv	1
FRST 101: College Success ( <i>SS</i> )	1	African American History and Culture <sup>4</sup> ( <i>AA</i> )	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
SPCH 250: Speech Fundamentals ( <i>HFA</i> )	3	PHYS 242: General Physics II ( <i>SR</i> )	3
MATH 240: Intro to Sci Pro for Math Major	3	PHYS 252: General Physics II Lab ( <i>SR</i> )	1
PHYS 241: General Physics I ( <i>SR</i> )	3	Social/Behavioral Sciences <sup>5</sup> ( <i>SBS</i> )	3
PHYS 251: General Physics I Lab ( <i>SR</i> )	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 341: Intro Differential Equations	3	MATH 351: Linear Algebra & Matrix Theory	3
MATH 320: History of Mathematics	3	MATH 340: Numerical Methods <b>or</b> MATH 365: Introduction to Data Science	3
MATH 377: Intermediate Analysis I	3	MATH 378: Intermediate Analysis II	3
Ethical Reasoning Elective <sup>6</sup>	3	Science Elective <sup>7</sup>	4
HPED	2	Elective	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
MATH 411: Abstract Algebra I	3	MATH 412: Abstract Algebra II	3
Math Elective <sup>8</sup>	3	Math Elective <sup>8</sup>	3
Science Elective <sup>7</sup>	4	MATH 496: Capstone Experience in Math	3
Electives	4	Electives	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

**Total Credit Hours: 120**

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

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

<sup>3</sup>For students starting in Math 103, Math 104, or Math 110, the programming courses should be replaced with electives or HPED 200 in the first year. Then MATH 140 and MATH 240 should be taken prior to MATH 340/365. See the Mathematics Student Handbook for a sample program guide.

<sup>4</sup> One course from: HIST 103, 106 or 107, or LIBS 202, or MUSI 220.

<sup>5</sup> One course from: BUED 279, ECON 200 or 201, HIST 104 or 105, POLI 110, PSYC 101, or SOCI 100 or 200

<sup>6</sup> One course from: PHIL 104, 201, 263, 316, 317, or 320

<sup>7</sup> 8 hours from: CHEM 100, 110 and BIOL 100; or CHEM 106,116 and CHEM 107, 117; CHEM 106,116 and BIOL 101.

<sup>8</sup> 9 hours from: MATH 123, 310, 323, 330, 485, 607, 608, 610, 611, 612, 620, 623, 624, 631, 632, 650, 651, 652, 665, 690, STAT 324, 328, 423, 424, 425, 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 320
MATH 106	MATH 340/365
MATH 131	MATH 341
MATH 132	MATH 351
MATH 140	MATH 377
MATH 211	MATH 378
MATH 215	MATH 411
MATH 224	MATH 412
MATH 231	MATH 496
MATH 240	Math Electives (2)