

# MATHEMATICS MAJOR, BS

Campus: NYC, Westchester

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
ENG 110	Composition	3
UNV 101	First-Year Seminar: Introduction to University Community	1
MAT 131	Calculus I	4
Take any two remaining Area of Knowledge and Learning Community (LC) courses		6
Take any one remaining Area of Knowledge course		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
MAT 132	Calculus II	4
ENG 120	Critical Writing	4
MAT 234	Introduction to Probability and Statistical Analysis (Analysis of Human, Social, and Natural Phenomena (AOK5))	4
One Lab science course		3
<b>Credits</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
MAT 233 or MAT 137	Mathematical Structures and Models or Introduction to Discrete Mathematics	4
MAT 236	Multivariable Calculus	4
First Second Language Course. See Advisor for guidelines		3
One Civic Engagement (CE) course		3
Open Elective Course		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
ENG 201	Writing in the Disciplines	3
MAT 253	Differential Equations	4
Second Language Course, if applicable		3
Take any one remaining Area of Knowledge course		4
Take any one remaining Area of Knowledge course		3
<b>Credits</b>		<b>17</b>
<b>Third Year</b>		
<b>Fall</b>		
CS 121	Computer Programming I	4
MAT 238	Linear Algebra	4
MAT 305 or MAT 311	Complex Variables or Real Analysis	3
Take any one remaining Area of Knowledge course		3
Open Elective Course		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
MAT 301	Algebraic Structures (Or 200-level elective course in MAT)	3
One 200-level or higher elective course in MAT		3
COM 200	Public Speaking	3
Open Elective Course		3
Open Elective Course		3
<b>Credits</b>		<b>15</b>

**Fourth Year****Fall**

MAT 490	Mathematics Seminar Capstone Experience I (Or MAT 400 (MAT 400 is 3 credits))	1
MAT 305 or MAT 311	Complex Variables or Real Analysis	3
Open Elective Course		3
Open Elective Course		3
Open Elective Course		3
Open Elective Course		3
<b>Credits</b>		<b>16</b>

**Spring**

MAT 491	Mathematics Seminar Capstone Experience II (Only if student took MAT 490 and not MAT 400)	2
MAT 301	Algebraic Structures (Or 200-level or higher elective course in MAT)	3
Open Elective Course		3
Open Elective Course		3
Open Elective Course		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>128</b>