# Mathematics Major Curriculum

*(Starting with the 2019 Cohort)*

**13 Courses :: 52 Credits**

[http://math.nyu.edu/degree/undergrad/](http://math.nyu.edu/degree/undergrad/)

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<th>Name:</th>
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<tr>
<th>Math Major Courses (13 Total)</th>
<th>Semester</th>
<th>Grade</th>
<th>AP/Transfer</th>
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<tbody>
<tr>
<td>MATH-UA 120 – Discrete Mathematics</td>
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<td>MATH-UA 121 – Calculus I</td>
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<td>MATH-UA 122 – Calculus II</td>
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<td>MATH-UA 123 – Calculus III or MATH-UA 129 Honors Calculus III</td>
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<td>MATH-UA 140 – Linear Algebra or MATH-UA 148 Honors Linear Algebra</td>
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<td>MATH-UA 325 – Analysis or MATH-UA 328 Honors Analysis I</td>
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<td>MATH-UA 343 – Algebra or MATH-UA 348 Honors Algebra I</td>
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**Three** of the following courses:

- MATH-UA 233 – Theory of Probability or MATH-UA 238 Honors Theory of Probability
- MATH-UA 234 – Mathematical Statistics
- MATH-UA 240 – Combinatorics
- MATH-UA 248 – Theory of Numbers
- MATH-UA 252 – Numerical Analysis
- MATH-UA 253 – Linear and Nonlinear Optimization
- MATH-UA 262 – Ordinary Differential Equations or MATH-UA 268 Honors Ordinary Differential Equations
- MATH-UA 263 – Partial Differential Equations
- MATH-UA 264 – Chaos & Dynamical Systems
- MATH-UA 282 – Functions of a Complex Variable
- MATH-UA 329 – Honors Analysis II
- MATH-UA 349 – Honors Algebra II
- MATH-UA 375 – Topology
- MATH-UA 377 – Differential Geometry
- MATH-UA 393, 394, 397, 398 – Honors I, Honors II, Honors III, Honors IV

**Three** Electives MATH-UA 120 or higher

1.  
2.  
3.  

**NOTES:**

**Please declare your major by completing the major declaration form online:**

[http://math.nyu.edu/degree/undergrad/declaring.html](http://math.nyu.edu/degree/undergrad/declaring.html)