



**Yeshiva University**

**Yeshiva College**

**Academic Advising Center**

500 West 185<sup>th</sup> Street, Furst Hall, Room 101

Phone: **646-592-4425** | Email: **advising@yu.edu**

## **Mathematics Major**

### ***Specialization in Pure and Applied Mathematics***

Total Credits: 42-44 Credits

#### **REQUIRED COURSES (7 COURSES, 24 CREDITS):**

<b>MAT 1412</b> , Calculus 1 ( ) _____	4 Credits
<b>MAT 1413</b> , Calculus 2 ( ) _____	4 Credits
<b>MAT 1510</b> , Multivariable Calculus ( ) _____	4 Credits
<b>MAT 2105</b> , Linear Algebra ( ) _____	3 Credits
<b>MAT 1520</b> , Advanced Calculus 1 (or MAT 5300) ( ) _____	3 Credits
<b>MAT 2461</b> , Probability Theory ( ) _____	3 Credits
<b>MAT 2601</b> , Differential Equations ( ) _____	3 Credits

#### **ELECTIVES: 1500 LEVEL OR HIGHER (4 COURSES, 12 CREDITS):**

Recommended courses include MAT 1504, MAT 2462, MAT 1521 or MAT 5301, MAT 1540 or 5405, MAT 2215 or MAT 5339

<b>MAT ELECT 1</b> ( ) _____	3 Credits
<b>MAT ELECT 2</b> ( ) _____	3 Credits
<b>MAT ELECT 3</b> ( ) _____	3 Credits
<b>MAT ELECT 4</b> ( ) _____	3 Credits

#### **CORRELATES (2 COURSES, 6-8 CREDITS):**

Chosen from computer science, or graduate mathematics, artificial intelligence, data analytics and visualization

<b>CORR 1</b> ( ) _____	3-4 Credits
<b>CORR 2</b> ( ) _____	3-4 Credits

NOTE: Courses within any given major or minor require a grade of a "C-" or better to fulfill its requirement