



## Mathematical Major; *Computational Science*

Total

REQUIRED COURSES (27 CREDITS)		Term	Credits
Subj/Course #	Title		
<b>MAT 1412</b>	Calculus 1		4
<b>MAT 1413</b>	Calculus 2		4
<b>MAT 1510</b>	Multivariable Calculus		4
<b>MAT 2105</b>	Linear Algebra		3
<b>MAT 2461</b>	Probability Theory		3
<b>MAT 2462</b>	Mathematical Statistics		3
<b>MAT 2601</b>	Differential Equations		3
<b>MAT 2651</b>	Numerical Analysis		3
<b>MAT ELECTIVES (SELECT 4 OF THE FOLLOWING, 12-15 CREDITS)</b>			
<b>COM 1300</b>	Introduction to Computer Science		4
<b>COM 1310/1510</b>	Math for Computer Science/ Discrete Structures		4
<b>COM 1320</b>	Data Structures		4
<b>COM 2545</b>	Algorithms		3
<b>COM 3920</b>	Machine Learning		3
<b>COM 3921</b>	Applied Machine Learning		3
<b>CORRELATE (1 COURSE, 3 CREDITS)</b>			
<b>CORR #1</b>			3

Notes:

1. 60% of this major must be taken at Yeshiva College
  2. Major/Minor courses require a grade of a "C-" or better to fulfill its requirement
- Updated July 2024

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**Total Credits: 42**

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<b>Resid</b>
<b>(O or R)</b>



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