



Mathematical Major; *Computational Science*

Total Credits: 42

REQUIRED COURSES (27 CREDITS)		Term	Credits	Resid
Subj/Course #	Title			(O/R)
MAT 1412	Calculus 1		4	
MAT 1413	Calculus 2		4	
MAT 1510	Multivariable Calculus		4	
MAT 2105	Linear Algebra		3	
MAT 2461	Probability Theory		3	
MAT 2462	Mathematical Statistics		3	
MAT 2601	Ordinary Differential Equations		3	
MAT 2651	Numerical Methods		3	
MAT ELECTIVES (SELECT 4 OF THE FOLLOWING, 12-15 CREDITS)				
COM 1300	Introduction to Computer Science		4	
COM 1310/1504	Math for Computer Science/ Discrete Structures		4	
COM 1320	Data Structures		4	
COM 2545	Algorithms		3	
COM 3920	Machine Learning		3	
COM 3921	Applied Machine Learning		3	
CORRELATE (1 COURSE, 3 CREDITS)				
<i>Select one course from the following areas: MAT 1000-4999, COM 1000-4999, IDS 1000-4999</i>				
<i>Recommended: IDS 1400, 1556, 2020, 2030, 2460, 2550, 3800</i>				
CORR #1			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