

### 3-Year Tentative Course Plan for Math Graduate Students Pursing Math Option

Last Update: January 16, 2021

**Code:** D = Day course, E = Evening course

#### CORE COURSE OFFERINGS

Course #	Course Name	Prerequisites	FS21	SP22	FS22	SP23	FS23	SP24	FS24
4100	Real Analysis I	Math 3250 or consent of the instructor.	E		D		E		D
4160	Complex Analysis I	Math 2000 or consent of the instructor.			E		D		E
4450	Linear Algebra	Math 2450 and Math 3250, or consent of instructor		E		D		E	

#### ELECTIVE 4000 LEVEL COURSE OFFERINGS

Course #	Course Name	Prerequisites	FS21	SP22	FS22	SP23	FS23	SP24	FS24
4005	Exploratory Data Analysis with R	Math 1320, Math 2000, and Math 2450	E		E		E		E
4200	Mathematical Statistics I	Math 1320 and Math 2000		E		D		E	
4210	Mathematical Statistics II	Math 4200	D		E		D		E
4400	Introduction to Abstract Algebra	Math 2450 and Math 3250, or consent of instructor	E		D		E		D
4660, 4670, or equal	Geometry	Math 2000, Math 2450 and Math 3250, or consent of instructor		E		E		E	

#### 5000 LEVEL COURSE OFFERINGS

Course #	Course Name	Prerequisites	FS21	SP22	FS22	SP23	FS23	SP24	FS24
5070	Nonlinear Optimization	Graduate Standing	E		E		E		E
5100	Real Analysis II	Math 4100	E				E		
5460, 5600, 5820, or 5890	Statistical Methods in Learning & Modeling Topic course	Graduate Standing Graduate Standing		E E		E E		E E	

The above is a tentative schedule of courses that will be offered (primarily for the mathematics graduate student pursuing the math option) over the next few semesters. This schedule does not include possible summer courses. Other 4000 and 5000 math electives will be offered apart from this collection as resources are available.