Mathematics Lower-Division Course Offerings

2023 - 2024 Academic Year

The following listing is only a tentative plan. It is SUBJECT to CHANGE at departmental discretion
All courses require sufficient enrollment and are subject to cancellation at any time.

Course	Title	Fall	Winter	Spring
1A	Pre-Calculus I	F		
1B	Pre-Calculus II	F	W	
2A	Single Variable Calculus I	F	W	S
2B	Single Variable Calculus II	F	W	S
2D	Multivariable Calculus I	F	W	S
2E	Multivariable Calculus II	F	W	S
H2D	Honors Multivariable Calculus I			
H2E	Honors Multivariable Calculus II			
3A	Introduction To Linear Algebra	F	W	S
H3A	Honors Introduction To Linear Algebra			
3D	Elementary Differential Equations	F	W	S
5A	Calculus For Life Sciences I	F	W	S
5B	Calculus For Life Sciences II	F	W	S
8	Explorations in Functions and Modeling			S
9	Introduction to Programming for Numerical Analysis	F	W	S
10	Introduction to Programming for Data Science	F	W	S
13	Introduction to Abstract Mathematics	F	W	S

Mathematics Upper-Division Course Offerings

2023 - 2024 Academic Year

Course	Title	Fall	Winter	Spring
105A/105LA	Numerical Analysis I	F		
105B/105LB	Numerical Analysis II		W	
107/107L	Numerical Differential Equations **Offered every other year**			
110A	Optimization I		W	
110B	Optimization II			S
112A	Intro Partial Differential Equations I **112C is offered every other year**	F		
112B	Intro Partial Differential Equations II **112C is offered every other year**		W	
112C	Intro Partial Differential Equations III **112C is offered every other year**			S
113A	Mathematical Modeling for Biology I	F		
113B	Mathematical Modeling for Biology II		W	
115	Math Modeling			S
117	Dynamical Systems **Offered every other year**		W	
118	Theory of Differential Equations	F		
120A	Intro To Abstract Algebra: Group Theory	F	W	S
120B	Intro To Abstract Algebra: Rings/Fields		W	S
120C	Intro To Abstract Algebra: Galois Theory **Offered every other year**			
H120A	Honors Grad Algebra I			
H120B	Honors Grad Algebra II			

H120C	Honors Grad Algebra III			
121A	Linear Algebra I	F	W	S
121B	Linear Algebra II	F	W	S
130A	Probability i	F	W	S
130B	Probability ii		W	S
130C	Stochastic Processes			S
134A	Fixed Income	F	W	S
134B	Mathematics of Financial Derivatives	F	W	
134C	Mathematical Models for Finance		W	S
140A	Elementary Analysis I	F	W	S
140B	Elementary Analysis II	F	W	S
140C	Analysis In Several Variables			S
H140A	Honors Grad Analysis I	F		
H140B	Honors Grad Analysis II		W	
H140C	Honors Grad Analysis III			S
141	Intro To Topology			S
147	Complex Analysis	F	W	S
150	Intro To Math Logic	F		
161	Modern Geometry			S
162A	Intro To Differential Geometry I **162B Offered every other year**		W	
162B	Intro To Differential Geometry II **162B Offered every other year**			
173A	Intro To Cryptology I **Offered in summer only**			
173B	Intro To Cryptology II **Offered in summer only**			
175	Combinatorics			
176	Mathematics of Finance		W	
180A	Intro To Number Theory I		W	
180B	Intro To Number Theory II			S
184 & 184L	History Of Math & History Of Math Lab			S
192**	Studies in the Learning and Teaching of Secondary Mathematics	F	W	S
194 **	Problem Solving	F		
195W	Mathematical Writing	F		

** 2 units; can be repeated twice.

Department of Mathematics Course Descriptions

All courses require sufficient enrollment and are subject to cancellation at any time.