

GRADUATE COURSES

Spring 2025

(as of 01/27/25)

Course #	Title	Instructor	Schedule	First Meeting
MAT 517	Topics in Arithmetic Geometry: <i>Heights of Algebraic Cycles</i>	S.W. Zhang	MW 1:30-2:50 p.m. Fine 601	January 27
MAT 518	Topics in Automorphic Forms: Shimura varieties	M. Zhang	TTH 11:00 a.m.-12:20 p.m. Fine 1001	January 28
MAT 519	Topics in Number Theory: <i>Arithmetic Statistics</i>	M. Bhargava	F 1:30-4:20 p.m. Fine 1001	January 31
MAT 526	Topics in Geometric Analysis: <i>Advanced Topics in General Relativity</i>	M. Dafermos	F 3:00-5:50 p.m. Fine 1201	January 31
MAT 527	Topics in Differential Equations: <i>Regularity and stratification of nonlinear harmonic maps</i>	A. Naber	MW 1:30-2:50 p.m. Fine 401	January 27
MAT 528	Topics in Nonlinear Analysis: <i>Topics in General Relativity</i>	S. Klainerman	TTH 4:00-5:50 p.m. Fine 1001	January 28
MAT 529	Topics in Analysis: <i>Nonlinear PDE</i>	P. Constantin	TTH 1:30-2:50 p.m. Fine 1001	January 28
MAT 531	Introduction to Riemann Surfaces	S. J. Park	MW 3:00-4:20 p.m. Fine 110	January 27
MAT 547	Topics in Algebraic Geometry: <i>Higher Dimensional Geometry</i>	C. Xu	TTH 1:30-2:50 p.m. Fine 601	January 28
MAT 558	Topics in Conformal and Cauchy-Riemann (CR) Geometry: <i>Parabolic PDE and Parabolic flow</i>	A. Chang	TTH 11:00 a.m.-12:20 p.m. Fine 401	January 28
MAT 559	Topics in Geometry: <i>Convexities</i>	A. Naor	TH 1:30-4:20 p.m. Fine 110	January 30
MAT 560	Algebraic Topology	P. Ozsvath	TTH 11:00 a.m.-12:20 p.m. Fine 314	January 28
MAT 569	Topics in Topology: <i>Characteristic Classes and Applications</i>	Z. Szabo	TTH 1:30-2:50 p.m. Fine 1201	January 28
MAT 577/ MAT 478	Topics in Combinatorics: <i>Extremal combinatorics</i>	N. Alon	TTH 9:30-10:50 a.m. Fine 314	January 28
MAT 579	Topics in Discrete Mathematics: <i>Structure Theorems and Algorithms</i>	M. Chudnovsky	TTH 11:00 a.m.-12:20 p.m. Fine 1201	January 28

Please check Registrar [Course Offerings](#) for current information as there may be some changes in the first week or two of the semester.