

GRADUATE COURSES

Spring 2024

(as of 01/24/24)

| Course # | Title | Instructor | Schedule | First Meeting |
|---|--|-------------|---|---------------|
| MAT 515 | Topics in Number Theory and Related Analysis: <i>Spectral Theory of Locally Uniform Geometries</i> | P. Sarnak | T 1:30-4:20 p.m. Fine 1001 | January 30 |
| MAT 517 | Topics in Arithmetic Geometry: <i>Diophantine Geometry and Modular Forms</i> | S.W. Zhang | MW 1:30-2:50 p.m. Fine 601 | January 29 |
| MAT 519 | Topics in Number Theory: <i>Sieves and Algebraic Number Theory</i> | M. Bhargava | TH 1:30-4:20 p.m. Fine 1001 | February 1 |
| MAT 527 | Topics in Differential Equations: <i>Parabolic PDE</i> | A. Chang | TTH 1:30-2:50 p.m. Fine 1201 | January 30 |
| MAT 528 | Topics in Nonlinear Analysis: <i>Topics in General Relativity</i> | M. Dafermos | F 3:00-5:50 p.m. Fine 322 | February 2 |
| MAT 531 | Introduction to Riemann Surfaces | P. Yang | MW 11:00 a.m.-12:30 p.m. Fine 1201 | January 29 |
| MAT 547 | Topics in Algebraic Geometry: <i>Boundedness of Varieties</i> | C. Xu | TTH 1:30-2:50 p.m. Fine 601 | January 30 |
| MAT 549 | Topics in Algebra: <i>Equidistribution via ℓ-adic Cohomology</i> | N. Katz | TTH 3:00-4:20 p.m. Fine 322 | January 30 |
| MAT 559 | Topics in Geometry: <i>Lipschitz Extension, Reverse Isoperimetry and Rounding</i> | A. Naor | W 1:30-4:20 p.m. Fine 1001 | January 31 |
| MAT 560 | Algebraic Topology | I. Zemke | TTH 11:00 a.m.-12:20 p.m. Fine 1201 | January 30 |
| MAT 569 | Topics in Topology: <i>Topology of 4-manifolds</i> | Z. Szabo | TTH 1:30-2:50 p.m. Fine 801 | January 30 |
| MAT 577/ MAT 478 | Topics in Combinatorics: <i>The Probabilistic Method</i> | N. Alon | TTH 9:30-10:50 a.m. Fine 214 | January 30 |
| MAT 586/ APC 511/ MOL 511/ QCB 513 | Computational Methods in Cryo-Electron Microscopy | A. Singer | TTH 11:00 a.m.-12:20 p.m. Fine 401 | January 30 |
| MAT 589 | Topics in Probability, Statistics and Dynamics: <i>Modern Discrete Probability Theory</i> | A. Sly | MW 1:30-2:50 p.m. Fine 224 | January 29 |
| MAT 595/ PHY 508 | Introduction to Mathematical Physics: <i>Mathematical Aspects of Condensed Matter Physics</i> | J. Shapiro | TTH 1:30-2:50 p.m. Room TBD | January 30 |

Please visit [Course Offerings](#) to see the most up-to-date course information.