

Course Code		Course Title
MAT1060H	Fall	PDE I
MAT1100H	Fall	Algebra I
MAT1300H	Fall	Differential Topology
MAT1600H	Fall	Probability I
MAT1850H	Fall	Linear Algebra and Optimization
MAT1061H	Winter	PDEII
MAT1101H	Winter	Algebra II
MAT1301H	Winter	Algebraic Topology
MAT1601H	Winter	Probability II
MAT1501H		Graph Theory
MAT1105H	Fall	Topics in Representation Theory: Representations
MAT1190H	Fall	Algebraic Geometry I
MAT1190H	Winter	Algebraic Geometry II
MAT1192H	Winter	Advanced Topics in Algebraic Geometry: Geomet
MAT1210H	Fall	Topics in Number Theory: Galois cohomology with
MAT1191H	Winter	Topics in Algebraic Geometry: Prismatic F-gauges
MAT1013H	Fall	Theory of Several Complex Variables II: Complex (

MAT1120H	Winter	Lie Groups and Lie Algebras I
MAT1062H	Fall	Analysis and PDEs: Geometric Fluid Dynamics
MAT1312H	Fall	Topics in Geometry: Geometry of Quantum Mech
MAT1347H	Winter	Topics in symplectic geometry and topology: mirr
MAT1502H	Winter	Topics in Geometric Analysis: Complex Monge-A
MA1739H	Fall	Topics in Mathematical Physics: Introduction to P
MAT1502H	Fall	Optimal Transportation and Its Applications
MAT1520H	Fall	Wave propogation: Introduction to nonlinear disp
MAT1739H	Winter	Topics in General Relativity: Self-Similarity and th
MAT1128H	Winter	Topics in Probability: Stochastic differential equat
MAT1128H	Fall	Gaussian distributions with applications
MAT1510H	Winter	Deep Learning
MAT1800H	Winter	Methods of Applied Mathematics
MAT1314H	Winter	Introduction to Noncommutative Geometry
MAT1435H	Fall	Topics in Set Theory: Forcing
MAT1210H	Winter	Topics in Number Theory: Ellipitcal Curves
MAT1304H	Winter	Topics in Combinatorics - Advanced graph theory

Graduate Co

Instructor

Stefanos Aretakis

Julie Desjardins

Alexander Kupers

Jeremy Quastel

Adam Stinchcombe

Robert Haslhofer

Florian Herzig

Dro Bar-Natan

Benjamin Landon

Mike Molloy

Mathilde Gerbelli-Gauthier

Michael Groechenig

Daniel Litt

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Tristan Collins

Lisa Jeffrey

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Dmitry Panchenko

Vardan Papayan

Adam Stinchcombe

George Elliott

Stevo Todorčević

Arul Shankar

Lior Gishboliner

ourses 2025-2026

Undergrad Prerequisites

MAT354H1/MAT457H1 (concurrent accepted), MAT244H1 (80%)/MAT267H1 (70%),
strongly recommended MAT351Y1

MAT347Y1

MAT257Y1, MAT240H1, MAT327H1, MAT347Y1, MAT267H1

permission of the instructor

APM462H1/(MAT337H1/MAT357H1, MAT224H1/MAT247H1), APM346H1/MAT351Y1

MAT1060, familiarity with Sobolev and Holder spaces, and in particular with funamental
embedding and compactness theorems.

MAT1100H

MAT327H1/MAT257Y1 AND MAT347Y1

MAT1600H, MAT377H1 OR MAT370H1, MAT457H1

permission of the instructor

MAT415H1/MAT1210H AND MAT445H1

MAT327H1, MAT110H, MAT1101H

TBD

TBD

permission of the instructor

TBD

MAT464H1, MAT354H1, MAT457H1

MAT327H1/MATC27H3/MAT402H1,
MAT367H1/MAT425H1/MAT1300H/MATD67H3/MATC63H3/MAT307H5/MAT305H5/MAT
332H1

MAT244H1/MAT267H1 AND APM346H1/MAT351Y1 AND MAT367H1 and
MAT301H1/MAT347Y1

MAT240H1/MAT247H1, MAT157Y1/MAT257Y1, MAT354H1, MAT267H1, MAT347Y1.
Specialist in 3rd or 4th year

MAT448H1, MAT445H1

MAT354H1, MAT367H1, MAT457H1

MAT357H1/MAT337H1/MAT336H1/MAT457H1 AND APM346H1/MAT351H1/APM466H1
or permission of the instructor

MAT357H1

MAT351Y1

MAT457H1, MAT458H1, MAT464H1, and MAT1060H

permission of the instructor

MAT1600H

MAT223H1/MAT240H1, MAT235Y1/MAT237Y1/MAT257Y1, MAT244H1/MAT267H1,
(STA237H1, STA247H1/STA257H1, STA261H1/MAT377H1)

MAT336H1/MAT337H1/MAT357H1

Three of: MAT377H1/ MAT367H1/ MAT357H1/ MAT351Y1/ MAT347Y1/ MAT354JH1. Co-
requisite: MAT436H1, MAT437H1. Alternatively, permission of the instructor.

permission of the instructor

TBD

MAT332H1