2007-2008 Graduate Courses

CORE COURSES

MAT 1000Y / MAT 457Y	Real Analysis	A. Del Junco
MAT 1001HS/MAT 454HS	Complex Analysis	E. Bierstone
MAT 1100Y	Algebra	P. Selick
MAT 1300Y	Topology	D. Bar-Natan
MAT 1060HF	PDE I	A. Burchard
MAT 1061HS	PDE II	R. Jerrard

TOPICS COURSES, including CROSS-LISTED COURSES

MAT 1003HF	Introduction to Several Complex Variables	T. Bloom
MAT 1013HS	Dynamics in Several Complex Variables	M. Lyubich
MAT 1016HF	Introduction to Operator Algebras (part of Fields Program)	M - D. Choi
MAT 1035HF	Structure of C*-Algebras (part of Fields Program)	G.A. Elliott
MAT 1045HS	Ergodic Theory	K. Khanin
MAT 1062HS	Computational Methods for PDE	M. Pugh
MAT 1063HF	Microlocal Analysis and Applications I	V. Ivrii
MAT 1075HS	Microlocal Analysis and Applications II	V. Ivrii
MAT 1101HF	Group Theory Today	B. Szegedy
MAT 1120HF	Lie Algebras	J. Repka
MAT 1121HS	Lie Groups and Algebraic Groups	F. Murnaghan

MAT 1155HF	Commutative Algebra and Algebraic Geometry	K. Kaveh
MAT 1190HS	Introduction to Schemes	S. Kudla
MAT 1199HF	Spectral Methods of Automorphic Forms	V. Blomer
MAT 1202HS	Analytic Number Theory (part of Fields program)	J. Friedlander
MAT 1210HF	Introduction to the Theory of L-functions	H. Kim
MAT 1302HS / APM 461HS	Combinatorial Methods	S. Tanny
MAT 1312HS	Complex Hyperbolic Geometry	J. Bland
MAT 1313HF	Comparison Geometry	V. Kapovitch
MAT 1314HS	Introduction to Noncommutative Geometry	R. Ponge
MAT 1340HF / MAT 425HF	Differential Topology I: Smooth Topology and Morse Theory	A. Khovanskii
MAT 1341HS	Differential Topology II: Algebraic Topology from a Differential Viewpoint	A. Khovanskii
MAT 1345HF	Homological Algebra	S. Arkhipov
MAT 1347HS	Symplectic Topology and Integrable Systems	B. Khesin
MAT 1404HF / MAT 409HF	Introduction to Model Theory/Set Theory	W. Weiss
MAT 1430HS	Set Theory: Forcing	S. Todorcevic
MAT 1507HF / APM 441HF	Asymptotic and Perturbation Methods	C. Sulem
MAT 1508HS	Reaction-diffusion equations and their applications in biology, chemistry, physics and material sciences	I.M. Sigal
MAT 1700HS / APM 426HS	General Relativity	W. Abou-Salem
MAT 1711HF	Conformal Field Theory in Two Dimensions I	K. Hori

MAT 1723HF / APM 421HF	Mathematical Concepts of Quantum Mechanics and Quantum Information	I.M. Sigal
MAT 1739HS	Conformal Field Theory in Two Dimensions II	K. Hori
MAT 1750HF	Computational Mathematics	M. Shub
MAT 1751HS	Topics in Computational Mathematics	M. Shub
MAT 1844HF	Introduction to Dynamics	C. Pugh
MAT 1856HS / APM 466HS	Mathematical Theory of Finance	L. Seco