id	topic	id	topic
MAT100	Precalculus/Prestatistics	MAT455	Advanced Topics in Geometry - Lie Theory
MAT103	Calculus I	MAT457	Algebraic Geometry
MAT104	Calculus II (One Variable, Continued from 103)	MAT469	Advanced Topology
MAT175	Basic Multivariable Calculus for Economics & Life Sciences	MAT486	Random Processes
MAT189	Number, Shape and Symmetry	MAT520	Functional Analysis
MAT190	The Magic of Numbers	MAT522	Introduction to Partial Differential Equations
MAT191	An Integrated Introduction to Engineering, Mathematics, Physics	MAT523	Advanced Analysis
MAT192	An Integrated Introduction to Engineering, Mathematics, Physics	MAT531	Riemann Surfaces
MAT198	Useful Fictions: How and why mathematics is developed and then changes the ...	MAT982	Junior Seminar
MAT199	Math Alive	MAT983	Junior Seminar
MAT201	Calculus III (Multivariable Calculus)	MAT984	Junior Seminar
MAT202	Introduction to Linear Algebra	MAT500	Effective Mathematical Communication
MAT203	Advanced Multivariable Calculus	MAT509	Topics in Logic and Foundations: Computational Complexity
MAT204	Advanced Linear Algebra with Applications	MAT515	Topics in Analytic Number Theory: Spectal theory of automorphic forms
MAT214	Numbers, Equations, and Proofs	MAT516	Topics in Algebraic Number Theory: Galois Representations
MAT215	Honors Analysis in a Single Variable	MAT517	Topics in Arithmetic Geometry: Arithmetic Gan-Gross-Prasad Conjecture
MAT216	Accelerated Honors Analysis I	MAT518	Topics in Automorphic Forms: Philosophy of cusp forms
MAT217	Honors Linear Algebra	MAT520	Functional Analysis
MAT218	Accelerated Honors Analysis II	MAT522	Introduction to Partial Differential Equations
MAT301	Mathematics in Engineering I	MAT523	Advanced Analysis
MAT302	Mathematics in Engineering II	MAT526	Topics in Geometric Analysis and Relativity: Introduction to general...
MAT320	Introduction to Real Analysis	MAT527	Topics in Differential Equations: Global solutions of nonlinear evol...
MAT321	Numerical Methods	MAT528	Topics in Nonlinear Analysis: The rigidity, stability, and formation...
MAT322	Introduction to Differential Equations	MAT529	Topics in Analysis: Fluid dynamics and related equations
MAT323	Topics in Mathematical Modeling - Mathematical Neuroscience	MAT531	Riemann Surfaces
MAT325	Analysis I: Fourier Series and Partial Differential Equations	MAT539	Topics in Complex Analysis: Brill-Noether theory for Riemann surfaces
MAT330	Complex Analysis with Applications	MAT547	Topics in Algebraic Geometry: Arithmetic algebraic geometry (continu...
MAT335	Analysis II: Complex Analysis	MAT549	Topics in Algebra: Moduli of varieties of general type
MAT340	Applied Algebra	MAT550	Differential Geometry
MAT345	Algebra I	MAT555	Topics in Differential Geometry: Kahler-Einstein Metrics
MAT346	Algebra II	MAT558	Topics in Conformal and Cauchy-Riemann Geometry
MAT350	Intoduction to Differentiable Manifolds	MAT559	MAT559 Topics in Geometry: Conformally covariant operators and their...
MAT355	Introduction to Differential Geometry	MAT560	Algebraic Topology
MAT365	Topology	MAT566	Topics in Differential Topology: Topical Invariants for Knots and Th...
MAT375	Introduction to Graph Theory	MAT567	Topics in Low Dimensional Topology: Symplectic techniques in low-dim...
MAT377	Combinatorial Mathematics	MAT568	Topics in Knot Theory: Knot Floer homology
MAT378	Theory of Games	MAT569	Topics in Topology: Classical high dimensional manifold theory
MAT385	Probability Theory	MAT572	Introduction to Combinatorial Optimization
MAT415	Analytic Number Theory	MAT576	Advanced Topics in Computer Science: Arithmetic circuits
MAT419	Topics in Number Theory: Algebraic Number Theory	MAT579	Topics in Discrete Mathematics: Coloring and induced subgraphs
MAT425	Analysis III: Integration Theory and Hilbert Spaces	MAT582	Dynamical Systems
MAT427	Ordinary Differential Equations	MAT585/APC520	Mathematical Analysis of Massive Data Sets
MAT429	Advanced Topics in Analysis	MAT596	Mathematical Methods in Physics: Intro to the Calculus of Variations...
MAT443	Cryptography	MATxxx	Geometric Measure Theory: Regularity theory for area-minimizing curr...
MAT447	Commutative Algebra	SEMINAR	Ergodic Theory and Statistical Mechanics
MAT449	Topics in Algebra: Representation Theory		

Total 91 records, File: db/mathematics/math-princeton2015

id	topic	id	topic
MathematicsMb	Introduction to Functions and Calculus II	Mathematics232a	Introduction to Algebraic Geometry I
Mathematics1a	Introduction to Calculus	Mathematics232br	Algebraic Geometry II
Mathematics1b	Calculus, Series, and Differential Equations	Mathematics233a	Theory of Schemes I
Mathematics18	Multivariable Calculus for Social Sciences	Mathematics233br	Theory of Schemes II
Mathematics19a	Modeling and Differential Equations for the Life Sciences	Mathematics243	Evolutionary Dynamics
Mathematics19b	Linear Algebra, Probability, and Statistics for the Life Sciences	Mathematics250	Algebraic Invariants of Knots - (New Course)
Mathematics21a	Multivariable Calculus	Mathematics258x	Random Matrix
Mathematics21b	Linear Algebra and Differential Equations	Mathematics259	Diophantine Definability - (New Course)
Mathematics23a	Linear Algebra and Real Analysis I	Mathematics261	Topics in Symplectic Geometry: Langrangian Intersection The...
Mathematics23b	Linear Algebra and Real Analysis II	Mathematics262	The Geometry of the Complex Monge-Ampere Equation - (New C...
Mathematics25a	Honors Linear Algebra and Real Analysis I	Mathematics262x	Topics in Geometric Analysis - (New Course)
Mathematics25b	Honors Linear Algebra and Real Analysis II	Mathematics263y	Topics in Geometry and Physics: K-Theory - (New Course)
Mathematics55a	Honors Abstract Algebra	Mathematics265	Reductive Groups Over Local and Global Fields - (New Cours...
Mathematics55b	Honors Real and Complex Analysis	Mathematics266	Intersection Theory in Algebraic Geometry - (New Course)
Mathematics60r	Reading Course for Senior Honors Candidates	Mathematics269	Topics in Kinetic Theory - (New Course)
Mathematics91r	Supervised Reading and Research	Mathematics271	Topics in Arithmetic Statistics - (New Course)
Mathematics99r	Tutorial	Mathematics275	Topics in Geometry and Dynamics - (New Course)
Mathematics110	Vector Space Methods for Differential Equations	Mathematics281	Algebraic K-theory and Manifold Topology - (New Course)
Mathematics112	Introductory Real Analysis	Mathematics303	Topics in Diophantine Problems - (New Course)
Mathematics113	Analysis I: Complex Function Theory	Mathematics304	Topics in Algebraic Topology
Mathematics114	Analysis II: Measure, Integration and Banach Spaces	Mathematics308	Topics in Number Theory and Modular Forms
Mathematics115	Methods of Analysis	Mathematics314	Topics in Differential Geometry and Mathematical Physics
Mathematics116	Real Analysis, Convexity, and Optimization	Mathematics318	Topics in Number Theory
Mathematics117	Probability and Random Processes with Economic Applications	Mathematics321	Topics in Mathematical Physics
Mathematics118r	Dynamical Systems	Mathematics327	Topics in Several Complex Variables
Mathematics121	Linear Algebra and Applications	Mathematics333	Topics in Complex Analysis, Dynamics and Geometry
Mathematics122	Algebra I: Theory of Groups and Vector Spaces	Mathematics335	Topics in Differential Geometry and Analysis
Mathematics123	Algebra II: Theory of Rings and Fields	Mathematics339	Topics in Combinatorics
Mathematics124	Number Theory	Mathematics341	Topics in Number Theory
Mathematics129	Number Fields	Mathematics343	Topics in Complex Geometry - (New Course)
Mathematics130	Classical Geometry	Mathematics345	Topics in Geometry and Topology
Mathematics131	Topology I: Topological Spaces and the Fundamental Group	Mathematics346y	Topics in Analysis: Quantum Dynamics
Mathematics132	Topology II: Smooth Manifolds	Mathematics352	Topics in Algebraic Number Theory
Mathematics136	Differential Geometry	Mathematics355	Topics in Category Theory and Homotopy Theory
Mathematics137	Algebraic Geometry	Mathematics356	Topics in Harmonic Analysis
Mathematics141	Introduction to Mathematical Logic	Mathematics358	Topics in Arithmetic Geometry
Mathematics144	Model Theory	Mathematics361	Topics in Differential Geometry and Analysis
Mathematics145a	Set Theory I - (New Course)	Mathematics362	Topics in Number Theory - (New Course)
Mathematics145b	Set Theory II - (New Course)	Mathematics363	Topics in Elliptic Fibrations and String Theory
Mathematics152	Discrete Mathematics	Mathematics365	Topics in Differential Geometry
Mathematics153	Mathematical Biology-Evolutionary Dynamics	Mathematics373	Topics in Algebraic Topology
Mathematics154	Probability Theory	Mathematics374	Topics in Number Theory
Mathematics155r	Combinatorics	Mathematics381	Introduction to Geometric Representation Theory
Mathematics156	Mathematical Foundations of Statistical Software - (New Course)	Mathematics382	Topics in Algebraic Geometry
Mathematics157	Mathematics in the World - (New Course)	Mathematics385	Topics in Set Theory
Mathematics161	Category Theory in Context - (New Course)	Mathematics387	Topics in Mathematical Physics: Bridgeland Stability Condit...
Mathematics212br	Advanced Real Analysis	Mathematics388	Topics in Mathematics and Biology
Mathematics213a	Complex Analysis	Mathematics389	Topics in Number Theory
Mathematics213br	Advanced Complex Analysis	MathematicsMa	Introduction to Functions and Calculus I
Mathematics221	Algebra	Mathematics101	Sets, Groups and Topology
Mathematics222	Lie Groups and Lie Algebras	Mathematicshematics 104	Series Expansions and Complex Analysis
Mathematics223a	Algebraic Number Theory	Mathematicshematics 105	Ordinary and Partial Differential Equations
Mathematics223b	Algebraic Number Theory	Mathematicshematics 107	Graph Theory and Combinatorics
Mathematics224	Representations of Reductive Lie Groups	Freshman Seminar 40p	Making the Grade? Middle and High School Math Education in ...
Mathematics229x	Introduction to Analytic Number Theory	History of Science 206r	It is Only a Hypothesis
Mathematics230a	Differential Geometry	Philosophy 144	Logic and Philosophy
Mathematics230br	Advanced Differential Geometry	Mathematics212a	Real Analysis
Mathematics231a	Algebraic Topology	Mathematics300	Teaching Undergraduate Mathematics
Mathematics231br	Advanced Algebraic Topology		

Total 117 records, File: db/mathematics/mathematics-harvard2015

id	topic	id	topic
18.01	Calculus	18.400J	Automata, Computability, and Complexity
18.01A	Calculus	18.404J	Theory of Computation
18.014	Calculus with Theory	18.405J	Advanced Complexity Theory
18.02	Calculus	18.409	Topics in Theoretical Computer Science
18.02A	Calculus	18.410J	Design and Analysis of Algorithms
18.022	Calculus	18.415J	Advanced Algorithms
18.024	Calculus with Theory	18.416J	Randomized Algorithms
18.03	Differential Equations	18.417	Introduction to Computational Molecular Biology
18.031	System Functions and the Laplace Transform	18.418	Topics in Computational Molecular Biology
18.034	Differential Equations	18.424	Seminar in Information Theory
18.04	Complex Variables with Applications	18.425J	Cryptography and Cryptanalysis
18.05	Introduction to Probability and Statistics	18.426J	Advanced Topics in Cryptography
18.06	Linear Algebra	18.433	Combinatorial Optimization
18.062J	Mathematics for Computer Science	18.434	Seminar in Theoretical Computer Science
18.075	Methods for Scientists and Engineers	18.435J	Quantum Computation
18.085	Computational Science and Engineering I	18.436J	Quantum Information Science
18.086	Computational Science and Engineering II	18.437J	Distributed Algorithms
18.089	Review of Mathematics	18.438	Advanced Combinatorial Optimization
18.094J	Teaching College-Level Science and Engineering	18.440	Probability and Random Variables
18.095	Mathematics Lecture Series	18.443	Statistics for Applications
18.098	Independent Study	18.445	Introduction to Stochastic Processes
18.099	Independent Study	18.465	Topics in Statistics
18.100A	Real Analysis	18.466	Mathematical Statistics
18.100B	Real Analysis	18.472	Topics in Mathematics with Applications in Finance
18.100C	Real Analysis	18.504	Seminar in Logic
18.101	Analysis and Manifolds	18.510	Introduction to Mathematical Logic and Set Theory
18.102	Introduction to Functional Analysis	18.511	Introduction to Computability and Undecidability
18.103	Fourier Analysis: Theory and Applications	18.515	Mathematical Logic
18.104	Seminar in Analysis	18.700	Linear Algebra
18.112	Functions of a Complex Variable	18.701	Algebra I
18.116	Riemann Surfaces	18.702	Algebra II
18.117	Topics in Several Complex Variables	18.703	Modern Algebra
18.125	Measure Theory and Analysis	18.704	Seminar in Algebra
18.135	Geometric Analysis	18.705	Commutative Algebra
18.137	Topics in Geometric Partial Differential Equations	18.706	Noncommutative Algebra
18.152	Introduction to Partial Differential Equations	18.715	Introduction to Representation Theory
18.155	Differential Analysis	18.721	Introduction to Algebraic Geometry
18.156	Differential Analysis	18.725	Algebraic Geometry I
18.157	Introduction to Microlocal Analysis	18.726	Algebraic Geometry II
18.158	Topics in Differential Equations	18.727	Topics in Algebraic Geometry
18.175	Theory of Probability	18.735	Topics in Algebra
18.176	Stochastic Calculus	18.737	Algebraic Groups
18.177	Topics in Stochastic Processes	18.739	Theory of Invariants
18.199	Graduate Analysis Seminar	18.745	Introduction to Lie Algebras
18.238	Geometry and Quantum Field Theory	18.747	Infinite-dimensional Lie Algebras
18.276	Mathematical Methods in Physics	18.755	Introduction to Lie Groups
18.303	Linear Partial Differential Equations: Analysis and Numerics	18.757	Representations of Lie Groups
18.304	Undergraduate Seminar in Discrete Mathematics	18.758	Representations of Lie Groups
18.305	Advanced Analytic Methods in Science and Engineering	18.769	Topics in Lie Theory
18.306	Advanced Partial Differential Equations with Applications	18.781	Theory of Numbers
18.310	Principles of Discrete Applied Mathematics	18.782	Introduction to Arithmetic Geometry
18.310A	Principles of Discrete Applied Mathematics	18.783	Elliptic Curves
18.311	Principles of Continuum Applied Mathematics	18.784	Seminar in Number Theory
18.312	Algebraic Combinatorics	18.785	Number Theory I
18.314	Combinatorial Analysis	18.786	Number Theory II
18.315	Combinatorial Theory	18.787	Topics in Number Theory
18.316	Seminar in Combinatorics	18.821	Project Laboratory in Mathematics
18.318	Topics in Combinatorics	18.901	Introduction to Topology
18.325	Topics in Applied Mathematics	18.904	Seminar in Topology
18.330	Introduction to Numerical Analysis	18.905	Algebraic Topology I

18.335J	Introduction to Numerical Methods	18.906	Algebraic Topology II
18.336J	Fast Methods for Partial Differential and Integral Equations	18.915	Graduate Topology Seminar
18.337J	Parallel Computing	18.917	Topics in Algebraic Topology
18.338	Eigenvalues of Random Matrices	18.937	Topics in Geometric Topology
18.352J	Theoretical Environmental Analysis	18.950	Differential Geometry
18.353J	Nonlinear Dynamics: Chaos	18.952	Theory of Differential Forms
18.354J	Nonlinear Dynamics: Continuum Systems	18.965	Geometry of Manifolds I
18.355	Fluid Mechanics	18.966	Geometry of Manifolds II
18.357	Interfacial Phenomena	18.969	Topics in Geometry
18.369	Mathematical Methods in Nanophotonics	18.979	Graduate Geometry Seminar
18.376J	Wave Propagation	18.994	Seminar in Geometry
18.377J	Nonlinear Dynamics and Waves	18.999	Research in Mathematics
18.384	Undergraduate Seminar in Physical Mathematics	18.UR	Undergraduate Research
18.385J	Nonlinear Dynamics and Chaos	18.THG	Graduate Thesis
18.386	Advanced Nonlinear Dynamics and Chaos	18.S096	Special Subject in Mathematics
18.395	Group Theory with Applications to Physics	18.S097	Special Subject in Mathematics
18.396J	Supersymmetric Quantum Field Theories	18.S995-18.S998	Special Subject in Mathematics
18.398	Quantum Field Theories		

Total 155 records, File: db/mathematics/mathematics-mit2015

id	topic	id	topic
MATH101	Math Discovery Lab	MATH244	Riemann Surfaces
MATH104	Applied Matrix Theory	MATH245C	Topics in Algebraic Geometry: Alterations
MATH106	Functions of a Complex Variable	MATH248	Introduction to Ergodic Theory
MATH108	Introduction to Combinatorics and Its Applications	MATH248A	Algebraic Number Theory
MATH110	Applied Number Theory and Field Theory	MATH249A	Topics in number theory
MATH114	Introduction to Scientific Computing (CME 108)	MATH249B	Topics in Number Theory
MATH115	Functions of a Real Variable	MATH249C	Topics in Number Theory
MATH118	Mathematics of Computation	MATH252	Algebraic Groups
MATH122	Modules and Group Representations	MATH256B	Partial Differential Equations
MATH132	Partial Differential Equations II	MATH257B	Symplectic Geometry and Topology
MATH144	Riemannian Geometry	MATH257C	Symplectic Geometry and Topology
MATH146	Analysis on Manifolds	MATH258	Topics in Geometric Analysis
MATH148	Algebraic Topology	MATH261A	Functional Analysis
MATH152	Elementary Theory of Numbers	MATH262	Applied Fourier Analysis and Elements of Modern Signal Processing (CME 372)
MATH159	Discrete Probabilistic Methods	MATH263A	Infinite-dimensional Lie Algebras
MATH16	Mathematics and Statistics in the Real World (STATS 90)	MATH263C	Topics in Representation Theoryy
MATH161	Set Theory	MATH266	Computational Signal Processing and Wavelets
MATH162	Philosophy of Mathematics (PHIL 162, PHIL 262)	MATH270	Geometry and Topology of Complex Manifolds
MATH163	The Greek Invention of Mathematics	MATH272	Topics in Partial Differential Equations
MATH173	Theory of Partial Differential Equations	MATH273A	Quantum Mechanics I
MATH175	Elementary Functional Analysis	MATH282A	Low Dimensional Topology
MATH180	Introduction to Financial Mathematics	MATH283	Topics in Algebraic and Geometric Topology
MATH19	Calculus	MATH283A	Topics in Topology
MATH191	Research Project	MATH284	Topics in Geometric Topology
MATH196	Undergraduate Colloquium	MATH284A	Geometry and Topology in Dimension 3
MATH198	Practical Training	MATH285	Geometric Measure Theory
MATH199	Independent Work	MATH286	Topics in Differential Geometry
MATH20	Calculus	MATH287	Introduction to optimal transportation
MATH205A	Real Analysis	MATH290B	Model Theory B (PHIL 350B)
MATH21	Calculus	MATH292A	Set Theory (PHIL 352A)
MATH210B	Modern Algebra II	MATH295	Computation and Algorithms in Mathematics
MATH210C	Lie Theory	MATH310	Top Ten Algorithms of the 20th Century (CME 329)
MATH215B	Complex Analysis, Geometry, and Topology	MATH360	Advanced Reading and Research
MATH215C	Complex Analysis, Geometry, and Topology	MATH361	Research Seminar Participation
MATH216A	Introduction to Algebraic Geometry	MATH382	Qualifying Examination Seminar
MATH216B	Introduction to Algebraic Geometry	MATH384	Seminar in Geometry
MATH216C	Introduction to Algebraic Geometry	MATH385	Seminar in Topology
MATH217A	Differential Geometry	MATH389	Seminar in Mathematical Biology
MATH221A	Mathematical Methods of Imaging (CME 321A)	MATH41	Calculus (accelerated)

MATH222	Computational Methods for Fronts, Interfaces, and Waves	MATH42	Calculus (Accelerated)
MATH224	Topics in Mathematical Biology	MATH42A	Calculus ACE
MATH226	Numerical Solution of Partial Differential Equations (CME 306)	MATH51	Linear Algebra and Differential Calculus of Several Variables
MATH228	Stochastic Methods in Engineering (CME 308)	MATH51A	Linear Algebra and Differential Calculus of Several Variables, ACE
MATH230A	Theory of Probability (STATS 310A)	MATH51H	Honors Multivariable Mathematics
MATH230C	Theory of Probability (STATS 310C)	MATH51M	Introduction to MATLAB for Multivariable Mathematics
MATH231	Orthogonal Polynomials and the Moment Problem	MATH52	Integral Calculus of Several Variables
MATH231A	An Introduction to Random Matrix Theory (STATS 351A)	MATH53	Ordinary Differential Equations with Linear Algebra
MATH231C	Free Probability	MATH70SI	The Game of Go: Strategy, Theory, and History
MATH232	Topics in Probability: Percolation Theory	MATH78SI	Speedcubing: HIstory, Theory, and Practice
MATH238	Mathematical Finance (STATS 250)	MATH80Q	Capillary Surfaces: Explored and Unexplored Territory
MATH239	Computation and Simulation in Finance	MATH87Q	Mathematics of Knots, Braids, Links, and Tangles
MATH243	Functions of Several Complex Variables	MATH88Q	The Mathematics of the Rubik's Cube

Total 104 records, File: db/mathematics/mathematics-stanford2015