

Rotation of Graduate Mathematics & Statistics Courses – subject to change

Updated Summer 2019

Fall of Odd Years (F2019/F2021)

Math 501 Real Analysis
Math 504 Measure & Integration
Math 505 Abstract Algebra
Math 516 Numerical Simulations for
 Probabilistic Models
Math 524 Algebraic Topology
Math 531 Intersections of Culture and Math
Math 534 Theories of Learning in Mathematics
Math 540 Applied Math I: PDEs
Math 548 Numerical Analysis
Math 553 Graph Theory
Math 563 Mathematical Genetics
Math 564 Convex and Nonlinear Optimization
Math 570 Math Foundations of Continuum
 Mechanics I
Math 575 Asset Pricing in Financial Engineering
Math 579 Math Modeling in the Bio and Health
 Sciences
Math 588 Topics in Computational Math

Stat 443 Applied Probability
Stat 512 Analysis of Variance of Designed
 Experiments
Stat 519 Applied Multivariate Analysis
Stat 536 Statistical Computing
Stat 548 Statistical Theory I
Stat 565 Analyzing Microarray and Other
 Genomic Data
Stat 575 The Theory of Multivariate Analysis

Spring of Even Years (S2020/S2022)

Math 502 Introduction to Functional Analysis
Math 507 Advanced Theory of Numbers
Math 511 Advanced Linear Algebra
Math 529 Computational Topology
Math 532 Advanced Mathematical Thinking
Math 540 Applied Math I: PDEs
Math 541 Applied Math II: Complex Variables
Math 548 Numerical Analysis
Math 565 Nonsmooth Analysis and
 Optimization with Applications
Math 571 Mathematical Foundations of
 Continuum Mechanics II
Math 576 Quantitative Risk Management
Math 583 Topics in Applied Mathematics
Math 588 Topics in Computational Math
Math 589 Topics in Analysis

Stat 508 Environmental Spatial Statistics
Stat 512 Analysis of Variance of Designed
 Experiments
Stat 530 Applied Linear Models
Stat 549 Statistical Theory II
Stat 556 Introduction to Statistical Theory
Stat 574 Linear and Nonlinear Mixed Models
Stat 577 Statistical Learning Theory
Stat 590 Statistical Consulting Practicum

Fall of Even Years (F2020/F2022)

Math 501 Real Analysis
Math 512 Ordinary Differential Equations
Math 516 Numerical Simulations for
 Probabilistic Models
Math 525 General Topology
Math 531 Intersections of Culture and Math
Math 540 Applied Math I: PDEs
Math 544 Advanced Matrix Computations
Math 546 Numerical Analysis of Parabolic and
 Hyperbolic PDEs
Math 548 Numerical Analysis
Math 553 Graph Theory
Math 560 Partial Differential Equations I
Math 566 Optimization in Networks
Math 574 Topics in Optimization
Math 586 Mathematical Methods in Natural
 Sciences
Math 587 topics in Algebra and Linear Algebra

Stat 443 Applied Probability
Stat 512 Analysis of Variance of Designed
 Experiments
Stat 516 Time Series
Stat 520 Statistical Analysis of Qualitative Data
Stat 536 Statistical Computing (U of I Co-Op)
Stat 548 Statistical Theory I
Stat 575 The Theory of Multivariate Analysis
Stat 576 Bayesian Analysis

Spring of Odd Years (S2021/S2023)

Math 502 Introduction to Functional Analysis
Math 507 Advanced Theory of Numbers
Math 511 Advanced Linear Algebra
Math 535 Research Paradigms in Math
 Education
Math 540 Applied Math I: PDEs
Math 541 Applied Math II: Complex Variables
Math 545 Numerical Analysis of Parabolic and
 Hyperbolic PDEs
Math 548 Numerical Analysis
Math 555 Topics in Combinatorics
Math 561 Partial Differential Equations II
Math 567 Integer and Combinatorial
 Optimization
Math 583 Topics in Applied Mathematics
Math 589 Topics in Analysis
Math 590 Topics in Mathematics Education

Stat 508 Environmental Spatial Statistics
Stat 512 Analysis of Variance of Designed
 Experiments
Stat 522 Biostatistics and Statistical
 Epidemiology
Stat 530 Applied Linear Models
Stat 544 Applied Stochastic Processes
Stat 549 Statistical Theory II
Stat 556 Introduction to Statistical Theory
Stat 574 Linear and Nonlinear Mixed Models
Stat 577 Statistical Learning Theory
Stat 590 Statistical Consulting Practicum