

**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 Elliptic 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