

Regular Elective Courses for Statistics Master's Program

===== Regular Electives from other departments =====

The following courses from other departments were served as regular electives in the past.

CMSC37600 - Computational Biology
CMSC35400(Stat37710) Machine Learning
CMSC35420 - Statistical Methods in Artificial Intelligence
CMSC37810 (STAT30900) MathematicalComputation I: Matrix computation
CMSC37811 (STAT31000) Math Computation II: Optimization/Simulation
CMSC37812 (STAT31100) Math Computation III: Numerical Methods for PDE

HSTD30900 (PPHA364, BIOS29318, ENST274, STAT350) Principles of Epidemiology
HSTD33100 (STAT35600) Applied Survival Analysis
HSTD31001 (STAT35700) Epidemiologic Methods
HSTD33300 (STAT36900) Longitudinal Data Analysis
HSTD32800 - Modern Data Analysis in Biostatistics
HSTD32900 - Introduction to Clinical Trials
HSTD33000 (STAT35200) Design and Analysis of Clinical Trials
HSTD43200 (STAT33200) Causal Inference
HSTD43201 (SOCI30315, CHDV30102, STAT31900) Causal Inference II
HSTD43000 (STAT32300) Bayesian Methods and Computation
HSTD43001 (Stat32301) Advanced Bayesian Methods
HSTD43501 - Theory and Methods for Multivariate and Longitudinal Data

FINM32000 - Numerical Methods of Option Pricing
FINM33000 - Mathematical Foundations of Option Pricing
FINM33400 - Statistical Risk Management
FINM34500 (STAT39000) Stochastic Calculus

BUSF41201 - Data Mining
BUSF41202 - Analysis of Financial Time Series
BUSF41902 (STAT32500) - Statistical Inference
BUSF41910 (STAT33500) - Time-Series Analysis and Forecasting
BUSF41914 - Multivariate Time Series Analysis
BUSF41914 (STAT32900) Applied Multivariate Analysis

PPHA41600 - Survey Research Methodology

HGEN47100 - Human Genetics III: Intro Statistical Genetics

ECEV35600 - Principles of Population Genetics I

ECEV35700 - Principles of Population Genetics II

ECEV35400 (MGCB35401, STAT35400) Gene Regulation

===== Regular Electives from Statistics Departments =====

All advance statistics courses can be served as regular electives. Other than the statistics courses jointly listed in the above, the following statistics courses have been popular among MS students as regular electives in the past.

STAT33100 - Sample Surveys

STAT33600 - Time Dependent Data

STAT33800 - Stat Inference for Financial Data

STAT33900 - Financial Data Analysis

STAT39100 - Stochastic Calculus II

STAT31700 - Introduction to Probability Models

STAT32200 - Bayesian Statistics: Foundations and Practice

STAT35500 - Statistical Genetics

STAT35900 - Statistics in Neuroscience

STAT36100 - Statistical Neural Spike Data

STAT30700 - Numerical Computation

STAT37800 - Statistical Computing

STAT31200 - Stochastic Processes I

STAT30400 - Distribution Theory

STAT30100 - Mathematical Statistics I

STAT30200 - Mathematical Statistics II

STAT38100 - Measure Theoretical Probability I

STAT38300 - Measure Theoretical Probability II

STAT38500 - Advanced Topics: Probability

STAT39600 - Nonparametric Statistics

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