



MPS in Applied Statistics – Application to Graduate

Please return this form to Allen Ward, 301 Malott Hall, 255-8066, allenward@cornell.edu no later than 3 weeks before graduation date.

Student Information

Name (print) _____

Graduation Date (check one): Jan. May August

Option #: _____ Advisor Name: _____

Cornell ID number: _____ NetID: _____ Phone: _____

Acceptance of Terms for MPS in Applied Statistics Requirements:

I have reviewed this Application to Graduate with my faculty advisor(s). I understand that it is my responsibility to complete the coursework listed below, and if I fail to do so, I may not be awarded my degree. I further understand that my address in student center must be current for me to receive my diploma as well as important information from the commencement office.

Signature

Date

MPS Required Courses

Please check all courses you have completed or expect to complete by the end of the current semester.

Required for both Option I and II

Required courses must be taken for a letter grade

STSCI 5030 – Linear Models with Matrices (4 credits)

STSCI 5080 – Probability Models and Inference (4 credits)

STSCI 5953 – MPS Professional Development (1 credit, S/U only)

STSCI 5999 – Applied Statistics MPS Data Analysis Project (spring only) (4 credits)

STSCI 5954 - Project Development and Professional Communication (2 credits)

Additional courses required for Option II only

STSCI 5060 – Database Management and SAS High Performance Computing with DBMS (4 credits)

STSCI 5045 – Python Programming and its Applications in Statistics (3 credits)

STSCI 5065 – Big Data Management and Analysis (3 credit)

MPS Electives

At most, one elective per semester can be taken S/U. Electives taken during the summer session must be taken for a letter grade.

Option I students must take at least 12 credit hours, and Option II students at least 4 credits of Statistical Science electives from this list. Option II students cannot use STSCI 5060, or 5065 as a Statistical Science elective since these courses are required as core Option II courses.

Statistical Science Electives

STSCI 5010: Applied Statistical Computation with SAS (4 credits)

STSCI 5040: R Programming for Data Science (4 credits)

STSCI 5045: Python Programming and its Applications in Statistics (3 credits)

STSCI 5060: Database Management and SAS High Performance Computing with DBMS (4 credits)

STSCI 5065: Big Data Management and Analysis (3 credits)

STSCI 5090: Theory of Statistics (4 credits)

STSCI 5100: Statistical Sampling (4 credits)

STSCI 5140: Applied Design (4 credits)

STSCI 5160: Categorical Data (4 credits)

STSCI 5550: Applied Time Series Analysis (4 credits)

STSCI 5600: Statistics for Risk Modeling (3 credits)

STSCI 5630: Operations Research Tools for Financial Engineering (3 credits)

STSCI 5640: Statistics for Financial Engineering (4 credits)

STSCI 5740: Data Mining and Machine Learning (4 credits)

STSCI 5750: Understanding Machine Learning (4 credits)

STSCI 5780: Bayesian Data Analysis: Principles and Practice (4 credits)

STSCI 6070: Functional Data Analysis (3 credits)

STSCI 6520: Computationally Intensive Statistical Methods (4 credits)

STSCI 6780: Bayesian Statistics and Data Analysis (3 credits)

The list of approved MPS electives continues on the following page



MPS Elective [continued]

Other Approved MPS Electives

AEM 7100: Econometrics I (3 credits)

BTRY 6381: Bioinformatics Programming (3 credits)

BTRY 6830: Quantitative Genomics and Genetics (4 credits)

BTRY 6840: Computational Genetics and Genomics (4 credits)

CS 5780: Machine Learning (4 credits)

CS 5786: Machine Learning for Data Science (4 credits)

ORIE 5510: Introduction to Engineering Stochastic Processes I (4 credits)

ORIE 5580: Simulation Modeling & Analysis (4 credits)

ORIE 5581: Monte Carlo Simulation (2 credits)

ORIE 5600: Financial Engineering with Stochastic Calculus I (4 credits)

ORIE 5610: Financial Engineering with Stochastic Calculus II (4 credits)

ORIE 5741: Learning with Big Messy Data (4 credits)

ORIE 6500: Applied Stochastic Processes (4 credits)

ORIE 6741: Bayesian Machine Learning (3 credits)

Core Course Substitutions

_____ substitute for _____
Course Number and Title Course Number and Title

_____ substitute for _____
Course Number and Title Course Number and Title

Electives

Other courses counted toward the MPS Degree (electives)

Course Number: _____ Course Title: _____

Course Number: _____ Course Title: _____

To Be Completed by Academic Advisor

The above coursework will satisfy the MPS requirements

The above coursework will not satisfy the MPS requirements

Advisor Signature: _____

Date: _____

Updated August 8, 2022