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)

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 4060, 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)

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: _____