Approved Electives for the Graduate Portfolio Program in Applied Statistical Modeling

Choose two courses from Category 2 or one course from Category 1 and one from Category 2.

Courses that are offered for Spring 2020 are highlighted below.

**Category 1**
- EDP 380C.4: Correlation and Regression Methods
- **M 384E:** Design and Analysis of Experiments
- M 384G: Regression Analysis
- ORI 390R: Regression and Analysis of Variance
- PSY 384K: Advanced Statistics: Experimental Design
- PSY 394T: Regression Analysis
- SDS 384.6: Design and Analysis of Experiments
- SDS 384.4: Regression Analysis
- SDS 385: Applied Regression
- STA 380: Mathematical Statistics for Applications
- STA 380: Statistical Computer Packages

**Category 2**
- BIO 384K: Bayesian Modeling
- BIO 384K: Muddyboots Statistics
- CE 387T: Decision, Risk, and Reliability
- CE 392R: Discrete Choice Theory Modeling
- CE 397: Acquisition and Analysis of Transport Data
- CH 382L: Advanced Physical Chemistry: Statistical Mechanics
- CS 380N: Data Mining: A Statistical Learning Perspective
- **CS 391D:** Data Mining: Mathematical Perspective
- **CS 395T:** Computational Statistics with Application to Bioinformatics
- EDP 380C.12: Survey of Multivariate Methods
- **EDP 380C.14:** Structural Equation Modeling
- **EDP 380C.16:** Hierarchical Linear Modeling
- EDP 380C.18: Applied Bayesian Analysis
- EDP 380C.22: Analysis of Categorical Data
- **EDP 380D.4:** Psychometric Theory and Methods
- EDP 380D.8: Item Response Theory
- EDP 380D.12: Computerized-Based Testing
- EDP 381D: Advanced Statistical Modeling
- EDP 381C.12: Meta-Analysis
- **EDP 381C.14:** Causal Inference
- EDP 382K: Factor Analysis
- EE 380L: Introduction to Pattern Recognition and Computer Vision
- EE 380L: Data Mining
- EE 380N: Stochastic Control Theory
- EE 381J: Probability and Stochastic Processes I
EE 381M: Probability and Stochastic Processes II
GEO 383D: Numerical Methods I: Computational Methods Geological Sciences
ME 388H: Nuclear Safety and Security
NEU 385L: Bootstrap Statistics
ORI 390R: Time Series Analysis
ORI 390R: Reliability Theory and Modeling
ORI 390R: Applied Stochastic Processes
ORI 390R: Queueing Theory
ORI 390R: Systems Simulation
ORI 390R.16: Markov Decision Processes
ORI 391Q: Stochastic Optimization
ORI 397: Decision Analysis
ORI 397: Nuclear Safety and Security
PA 388K: Evaluation of Social Policy and Programs
PSY 394T: Advanced Applied Statistics I
PSY 394T: Advanced Applied Statistics II
PSY 394T: Structural Equation Modeling
PSY 394U: Bootstrap Statistics
SOC 384M: Evaluation of Social Policy in Latin America
SOC 385K: Social Statistics: Discrete Multivariate Models
SOC 386L: Social Statistics: Dynamic Models and Longitudinal Data Analysis
SOC 395J: Structural Equation Models of Health and the Life Course
SDS 383C: Statistical Modeling I
SDS 383D: Statistical Modeling II
SDS 384: Bootstrap Statistics
SDS 384.7: Bayesian Statistical Methods
SDS 385: Analysis of Categorical Data
SDS 385: Hierarchical Linear Models
SDS 385: Survival Analysis/Duration Modeling
SDS 385: Social Statistics: Discrete Multivariate Models
SDS 385: Social Statistics: Dynamic Models and Longitudinal Data Analysis
SDS 385: Modern Statistical Methods
SDS 385K: Longitudinal Analysis
SDS 386C: Probabilistic Graphical Models
SDS 386D: Monte Carlo Methods in Statistics
SDS 387: Linear Models
SDS 389: Time Series and Dynamic Models
SDS 395: Applied Microeconometrics
STA 380: Applied Multivariate Methods
STA 380: Bayesian Econometrics