33—36 Credit Hours Required:

**Required Core Courses**
- MATH 6410 Probability Theory I
- MATH 6420 Mathematical Statistics II
- STAT 5020 Regression Analysis
- STAT 5060 Sample Design
- STAT 5080 Experimental Design

**Electives (Choose 4: 2 Stat/Or, 2 Math, at least 2 at 6000 level)**
- MATH 5260 Actuarial Mathematics I
- MATH 5270 Actuarial Mathematics II
- MATH 5450 Applied Probability
- MATH 5470 Exploratory Data Analysis
- MATH 5650 Introduction to Real Analysis I
- MATH 5660 Introduction to real Analysis II
- MATH 6440 Stochastic Processes
- MATH 6450 Statistical Distribution Theory
- MATH 6460 Nonparametric Statistical Inference
- MATH 6470 Sequential Statistical Inference
- MATH 6480 Bayesian Statistical Inference
- MATH 6710 Survival Analysis
- MATH 6720 Biostatistical Methods
- MATH 7400 Multidimensional Statistics
- MATH 7570 Linear Statistical Inference
- MATH 7580 Computational Statistics
- OR 6610 Linear and Integer Programming
- OR 6620 Probability Models for Decision Making
- STAT 5120 Applied Nonparametric Statistics
- STAT 5140 Statistical Quality Control
- STAT 5160 Time Series Analysis
- STAT 6200 Experimental Design II
- STAT 6300 Applied Multivariate Analysis
- STAT 6340 Discrete Data Analysis
- STAT 6440 Data Mining

**One Free Elective (must be approved by advisor)**

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**Plan I Thesis Option (Total 36 Credit Hours)**
- STAT 6990 Thesis Research
- One more Elective course

**Plan II Comprehensive Exam Option (Total 33 Credit Hours)**
- STAT 6750 Research Methods in Statistics and
  Comprehensive Exam covering MATH 6410, 6420, STAT 5020, 5060, 5080

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For further information contact:
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