# List of Approved Statistics Requirement Courses

All students are required to take PSY 221A and 221B in their first year. In addition, students are required to take a third course by the end of their second year. The following list includes courses that satisfy the third course requirement. Other courses will be considered on a petition basis.

## PSYCHOLOGICAL & BRAIN SCIENCES
- **PSY 221C** • Multivariate Methods (Multivariate Regression)
- **PSY 221D** • Structural Equation Modeling
- **PSY 221E** • Statistical Analysis of fMRI Data (Spring, every other year)
- **PSY 265** • Computational Neuroscience (Fall or Spring, every other year, alternating with 221E)

## COMMUNICATION
- **Comm 204C** • Advanced Topics in Research Methods and Statistical Analysis

## ECOLOGY, EVOLUTION AND MARINE BIOLOGY
- **EEMB 247.** Quantitative methods in biology
- **EEMB 276.** Advanced biostatics
- **EEMB 276L.** Advanced biostatics lab

## ECONOMICS
- **Econ 210B** • Game Theory
- **Econ 240A** • Introduction to Econometrics
- **Econ 240B** • Econometrics w/an Emphasis on Cross Section Analysis
- **Econ 240C** • Econometrics w/an Emphasis on Time Series and Forecasting
- **Econ 241A** • Econometrics (Elements of Probability and Statistics)
- **Econ 241B** • Econometrics (Regression Models)
- **Econ 241C** • Econometrics (Extensions of the General Linear Model)
- **Econ 242** • Advanced Game Theory
- **Econ 244** • Mathematical Economics
- **Econ 245A/B/C** • Econometric Theory

## EDUCATION
- **Educ 214C** • Linear Models for Data Analysis
- **Educ 215B** • Psychometrics: Classical Test Theory
- **Educ 215C** • Psychometrics: Item Response Theory
- **Educ 215E** • Nonparametric Statistics
- **Educ 216A** • Advanced Multivariate Statistics
- **Educ 216B** • Factor Analysis
- **Educ 216C** • Hierarchical Linear Models
- **Educ 216F** • Structural Equation Models

## GEOGRAPHY
• Geog 210A • Analytical Methods for Geographers I
• Geog 210B • Analytical Methods for Geographers II
• Geog 210C • Analytical Methods for Geographers III
• Geog 224 • Methods of Regional Analysis
• Geog 276 • Geographical Time Series Analysis
• Geog 277 • Spatial Environmental Modeling
• Geog 278 • Practice of Geostatistical Modeling of Spatial Data
• Geog 279 • Seminar in Geostatistic: Advance Topics in Spatial Statistics
• Geog 291 • Optimization Models for Geographic Problems

LINGUISTICS
• Ling 202 • Advanced Research Methods and Statistics
• Ling 204 • Statistical Methodology
• Ling 210 • Computational Linguistics
• Ling 218 • Corpus Linguistics

POLITICAL SCIENCE
• PS 207 • Advanced Political Research Methods
• PS 209 • Games and Models in Political Science

SOCIOLOGY
• Soc 148MA/248MA • Social Network Analysis
• Soc 204A/B/C • Topics in Advanced Data Analysis

STATISTICS AND APPLIED PROBABILITY-PSTAT
• PSTAT 220 A/B/C • Advanced Statistical Methods
• PSTAT 225 • Linear and Nonlinear Mixed Effects Models
• PSTAT 226 • Nonparametric Regression and Classification Methods
• PSTAT 227 • Bootstrap and Resampling Methodology
• PSTAT 274 • Time Series
• PSTAT 275 • Survival Analysis