

## Quantitative Empirical Methods Grad Course Offerings and Subfield Requirements (Updated March 2022)

### Core Courses

PLSC 529a. Mathematics for Political Science. Andrew Bridy  
PLSC 500a. Foundations of Statistical Inference. Fredrik Savje  
PLSC 503b. Theory and Practice of Quantitative Methods. Peter Aronow  
PLSC 536a. Applied Quantitative Research Design. Alex Coppock

### Elective Courses

PLSC 506b. Measurement, Estimation, and Inference. John Henderson  
PLSC 508a. Causal Inference and Research Design. Fredrik Savje  
PLSC 511b. Applied Machine Learning and Causal Inference Research Seminar. Jasjeet Sekhon  
PLSC 512b. The Design and Analysis of Randomized Field Experiments in Political Science. Alexander Coppock  
PLSC 523a. Mixed Methods Research. Elizabeth Nugent  
PLSC 524b. YData: Data Science for Political Campaigns. Joshua Kalla  
PLSC 527b. From Concept to Measure: Empirical Inquiry in Social Science. Sarah Khan  
PLSC 530ab. Data Exploration and Analysis. Ethan Meyers  
PLSC 537b. The Logic of Randomized Experiments in Political Science. Alex Coppock

### Workshops

MacMillan-CSAP Workshop on Quantitative Research Methods. (Various Instructors)

#### Notes:

- a courses are offered in the Fall, b courses are offered in the Spring. ab courses are offered in the Fall and Spring. a/b courses are offered in the Fall or Spring.
- BA/MA students may certify in quant methods by taking 536 and one of the electives, verifying that they have the prerequisites for taking this elective.
- 536 is intended for BA students, MA students, and PhD students who do not intend to take 529, 500, and 503.
- 524 and 530 are suitable for the field requirement for the MA program, but not for the Ph.D. program.
- 500 and 503 are intended to be taken as a year-long sequence. Students should not plan to only take one of the two courses. 529 is a corequisite for 500, and both 500 and 529 are prerequisites for 503.

### Subfield Requirements

Students may qualify in Quantitative Empirical Methods by exam. To do so, students must first take 529, 500, and 503. An advanced doctoral course on research design (e.g., 508, 511, S&DS 517) is also strongly recommended prior to taking the exam. The reading list contains further details and recommendations.