

## Quantitative Empirical Methods Grad Course Offerings and Subfield Requirements (Updated August 2023)

### Core Courses

PLSC 500a. Foundations of Statistical Inference. P. Aronow

PLSC 503b. Theory and Practice of Quantitative Methods. P. Aronow

PLSC 536a. Applied Quantitative Research Design. Shiro Kuriwaki

### Elective Courses

PLSC 508a. Causal Inference and Research Design. P. Aronow.

PLSC 511b. Applied Machine Learning and Causal Inference Research Seminar. Jasjeet Sekhon (not offered AY 2023-2024)

PLSC 512b. The Design and Analysis of Randomized Field Experiments in Political Science. Alexander Coppock

PLSC 524a. YData: Data Science for Political Campaigns. Josh Kalla

PLSC 527a. From Concept to Measure: Empirical Inquiry in Social Science. Sarah Khan

PLSC 530a. Data Exploration and Analysis. Ethan Meyers

### Workshops

[MacMillan-CSAP Workshop on Quantitative Research Methods](#). P. Aronow and Josh Kalla

#### 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.

- To those with strong interest in quantitative methods and prior coursework, we recommend taking PLSC 500 (Fall) and PLSC 503 (Spring) in the first year. This is the department's main QEM sequence. You should take both classes as a set; taking 500 alone is not as useful. Similarly, the materials in 500 are a prerequisite for 503.

- For students who want to advance their understanding of research design in applied papers and advance their coding skills, we recommend PLSC 536 (Fall). This is taught at the advanced Masters level.

- Taking both 500 and 536 is an option we also recommend considering, either spread out during your first and second years or, less commonly, both in the first year. For those who are underprepared for (or not certain about) PLSC 500 in their first semester but want solid quantitative methods training, we recommend taking PLSC 536 in their first fall and 500 and 503 in their second year.

-524 and 530 are suitable for the field requirement for the MA program, but not for the Ph.D. program.

### Subfield Requirements

Students may qualify in Quantitative Empirical Methods by exam. To do so, students must first take 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.