Master in Urban Planning
# Analytic Methods: Quantitative
## 2023-2024

Students must take at minimum 2 units in quantitative methods unless able to demonstrate sufficient experience to waive the requirement or pass an exemption exam to satisfy the quantitative methods requirement. It is highly recommended that students enroll in **GSD 5215** unless they are in a dual MPP, MPA, or MPH degree program taking a more advanced course. To postpone this requirement until after the first semester, please sign up for the [Program Director's office hours](#).

**FALL 2023 APPROVED COURSES:**

| SCHOOL | COURSE NUMBER | COURSE TITLE | UNITS | FACULTY |
|---|---|---|---|---|
| GSD | 2515 [M2] | Analytic Methods of Urban Planning: Quantitative | 2 | Voulgaris |
| FAS | STAT 109A | Data Science 1: Introduction to Data Science | 4 | Protopapas |
| HKS | API 201 | Quantitative Analysis and Empirical Methods[1] | 4 | Various |
| HKS | API 205 | Politics and Policies: What Is the Impact of Data and AI? | 4 | Hallett |
| HKS | API 209 | Advanced Quantitative Methods I: Statistics[2] | 4 | Levy |
| HSPH | BST 201 | Introduction to Statistical Methods[3] | 4 | Catalano |
| HSPH | BST 210 | Applied Regression Analysis[4] | 4 | Lake |

*1. Enrollment is restricted to MUP/MPP dual degree students. Otherwise, permission of the instructor is required to enroll. This is the first course of a required two-course sequence with API 202.*
*2. Enrollment is restricted to MUP/MPA-ID dual degree students. Otherwise, permission of the instructor is required to enroll. Prerequisites: Multivariate calculus or linear algebra.*
*3. Enrollment is restricted to MUP/MPH dual degree students. Otherwise, permission of the instructor is required to enroll.*
*4. Cross-registrants and Non-MPH students will be enrolled on a space available basis after the enrollment deadline for the course. Prerequisite: ID201 or BST201.*
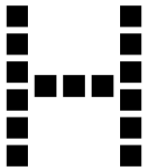
**SPRING 2024 APPROVED COURSES:**

| SCHOOL | COURSE NUMBER | COURSE TITLE | UNITS | FACULTY |
|---|---|---|---|---|
| HKS | API 202 [M1] | Empirical Methods II[1] | 2 | Schneer, Svoronos, Layton, Carlana |
| HKS | API 222 | Machine Learning and Big Data Analytics[2] | 4 | Saghafian |
| HSPH | BST 210 | Applied Regression Analysis | 4 | Thaweethai |
| HSPH | ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice[3] | 8 | Mattie |

*1. Enrollment is restricted to MUP/MPP dual degree students. This course is not available for cross-registration.*
*2. Prerequisites: An understanding of intermediate-level statistics and probability theory (e.g., API-201, API-202, or equivalent courses).*
*3. Cross-registrants and Non-MPH students will be enrolled on a space available basis after the enrollment deadline for the course. Prerequisite: ID201 or BST201.*

## APPROVED BUT NOT OFFERED IN 2023-2024:

| SCHOOL | COURSE NUMBER | COURSE TITLE | UNITS | FACULTY |
|--------|---------------|--------------|-------|---------|
| GSAS | 3808 | Introduction to Quantitative Methods for the Social Sciences and Humanities | 4 | Miratrix |