

# QUANTITATIVE METHODS IN PUBLIC HEALTH, CERTIFICATE

## Quantitative Methods in Public Health Certificate Program

### EDUCATIONAL OBJECTIVES

The certificate recipient will be able to:

1. Evaluate the methods used to measure health effects in populations;
2. Interpret basic, quantitative public health measures;
3. Judge policy implications of public health data and research;
4. Be familiar with the difficulties of collecting, interpreting and analyzing data and their implications; and
5. Perform a critical review of public health/epidemiologic literature.

### ADMISSIONS INFORMATION

For full admissions and contact information, please visit the certificate webpage (<https://publichealth.jhu.edu/academics/quantitative-methods-in-public-health-certificate-program/>) on the Bloomberg School of Public Health's website.

### REQUIREMENTS FOR SUCCESSFUL COMPLETION

The certificate program requires a minimum of 21 term credits of coursework. All required and elective courses must be taken for a letter grade; a minimum grade of C is required in all certificate coursework, and students must maintain a 2.75 or better overall GPA for all certificate coursework. The certificate program length is flexible and varies from student to student. However, the certificate must be completed within three years.

The student should review the section of the website that addresses completion (<https://publichealth.jhu.edu/academics/certificate-programs/requirements-for-successful-completion-of-a-certificate-program/>) before completing certificate program requirements. The student's transcript will not indicate that the certificate was earned until the Notification of Completion has been submitted, verified by the certificate program, and processed by the Registrar.

### COURSE OF STUDY

Students should check the BSPH course directory (<https://www.jhsph.edu/courses/>) to confirm when the courses are offered. Students should also check for prerequisites and whether instructor consent is required.

Code	Title	Credits
PH.550.860	Academic & Research Ethics at BSPH (All students are required to complete this noncredit course in their first term of study)	

#### Required Courses

PH.140.611	Statistical Reasoning in Public Health I (typically offered onsite and online in 1st term and Summer Institute)	3
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PH.140.612	Statistical Reasoning in Public Health II (typically offered onsite and online in 2nd term and Summer Institute)	3
PH.550.608	Problem Solving in Public Health (typically offered onsite in Barcelona in 2nd term and online in 3rd term and Summer Institute)	4
Students must complete either 340.767 or 340.663		
PH.340.767	Professional Epidemiologic Methods: Topics and Methods for Health Situation Analysis (typically offered online in Winter Institute)	2
PH.340.663	Epidemiology Workshop: Interpreting and Using Epidemiologic Evidence (typically offered in Winter Institute every other year)	2
Students must complete either 340.601 or 340.721		
PH.340.601	Principles of Epidemiology (typically offered onsite in Summer term)	5
PH.340.721	Epidemiologic Inference in Public Health I (typically offered online in 1st and 3rd terms and Summer Institute)	5
Students must complete either 340.722 or both 140.613 AND 140.614		
PH.340.722	Epidemiologic Inference in Public Health II (typically offered onsite in 2nd term and online in 2nd and 4th terms)	4
or		
PH.140.613	Data Analysis Workshop I (typically offered onsite and online in Summer Institutes and Winter Institute)	2
and		
PH.140.614	Data Analysis Workshop II (typically offered onsite and online in Summer Institutes and Winter Institute)	2