

# EPIDEMIOLOGY GRADUATE CERTIFICATE

This program is available at the following locations:

- Corvallis
- Ecampus

Epidemiology is the science that underpins public health and medicine. Students in this certificate program will learn fundamental epidemiology and biostatistics methods and how to apply these analytical skills to human health investigations. Two courses are required; students have flexibility for the remainder of the certificate coursework (18 credits total), to allow tailoring for individual student interests. This certificate is intended for clinical scientists or public health professionals who need additional epidemiology training without completing an entire MPH, or existing OSU master's students who wish epidemiology as an area of interest. It is also suitable for those who want to try graduate-level epidemiology training before committing to an MPH; all certificate credits are eligible for transfer into OSU's MPH program. This certificate provides training helpful for careers in public health; medicine, nursing, and other allied health fields; and public health- or clinical-related research.

**Certificate Code: CG10**

*Upon successful completion of the program, students will meet the following learning outcomes:*

- Examine key sources of data for public health problems pertinent to diverse populations.
- Analyze public health data using basic statistical assessments.
- Apply epidemiologic methods to a human health content area.

Code	Title	Credits
<b>Epidemiological Methods</b>		
H 525	EPIDEMIOLOGIC METHODS I	3
<b>Biostatistics</b>		
H 524	INTRODUCTION TO BIOSTATISTICS	4
<b>Quantitative Research Methods</b>		
Select one course from the following:		3-4
GEOG 560	GISCIENCE I: INTRODUCTION TO GEOGRAPHIC INFORMATION SCIENCE	
H 526	EPIDEMIOLOGIC METHODS II	
H 587	TIME TO EVENT ANALYSIS OF HEALTH DATA	
H 547	GIS AND PUBLIC HEALTH	
H 580	LINEAR REGRESSION AND ANALYSIS OF TIME TO EVENT DATA	
H 581	GENERALIZED LINEAR MODELS AND CATEGORICAL DATA ANALYSIS	
H 582	ANALYSIS OF CORRELATED HEALTH DATA	
H 564	COMPUTING TOOLS AND HEALTH DATA ANALYSIS	
H 611	INTRODUCTION TO SYSTEMATIC LITERATURE REVIEWS METHODOLOGY	
H 651	ADVANCED EPIDEMIOLOGICAL METHODS	
HDFS 529	INTRODUCTORY DATA ANALYSIS WITH SAS	
HHS 526	LINEAR REGRESSION IN PUBLIC HEALTH	
HHS 527	LOGISTIC REGRESSION IN PUBLIC HEALTH	
HHS 533	COMPUTING FOR POPULATION HEALTH DATA	
HHS 552	HEALTH DATA ANALYTICS II: APPLIED ANALYSIS	
KIN 532	PHYSICAL ACTIVITY ASSESSMENT	
ST 537	DATA VISUALIZATION	
<b>Applied Epidemiology</b>		

Select two courses from the following: 6

H 544	ENVIRONMENTAL AND OCCUPATIONAL EPIDEMIOLOGY
H 552	DISASTER EPIDEMIOLOGY
H 562	INFECTIOUS DISEASE EPIDEMIOLOGY
H 563	PHYSICAL ACTIVITY EPIDEMIOLOGY
H 593	REPRODUCTIVE EPIDEMIOLOGY
H 596	HEALTHCARE EPIDEMIOLOGY
H 597	EPIDEMIOLOGIC METHODS IN FOODBORNE DISEASE OUTBREAK INVESTIGATION
HHS 551	HEALTH DATA ANALYTICS I: SOURCES AND PLANNING
HHS 584	SURVEILLANCE AND FIELD EPIDEMIOLOGY FOR PUBLIC HEALTH

**Electives**  
Select additional courses from above or other courses in consultation with certificate advisor 2-4

**Total Credits** 18-21

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