

FAST FACTS: Certificates in *Biostatistics and/or Epidemiology*



Graduate Certificate Programs



Description: The 12-credit graduate certificate program *Epidemiology* and 15-credit graduate certificate program *Biostatistics and Epidemiology* focus on the development of the qualitative and quantitative knowledge and skills to collect, organize, analyze, and interpret data associated with epidemiological investigations, health surveys, injury and illness recognition, and human exposure assessments. (Note: The combined certificate in *Biostatistics and Epidemiology*, compared to the *Epidemiology* certificate, provides learners with an expanded scope and depth of quantitative knowledge and skills. The certificate pursued should be based on an individual's interest, planned application, and prior education and training completed.) Upon completion of either program, learners will be prepared to:

- select and apply appropriate biostatistical and epidemiological methods and interpret basic and applied research data.
- define and calculate measures of disease frequency and measures of association between risk factors and disease.
- describe the major epidemiologic research study designs and their advantages and limitations.
- define the basic terms and apply methods used in outbreak investigation, infectious disease epidemiology, chronic disease epidemiology, disease prevention trials, and evaluation of screening tests.
- review the scientific literature with competence, synthesize findings across studies, and make appropriate public health recommendations based on current knowledge.
- design an epidemiologic study to address a question of interest.
- write a clear description of the rationale, methods, results, and interpretation of an epidemiologic investigation.
- apply epidemiologic skills in a clinical or public health setting, specifically in the formulation or application of health-related programs or policies.

12-credit <i>Epidemiology</i>	
Courses	Credits
PUBH600/800 Biostatistics (Summer, Fall <u>or</u> Spring)	3
PUBH601/801 Public Health Epidemiology (Summer, Fall <u>or</u> Spring)	3
PUBH655/855 Chronic Disease Epidemiology (Summer)	3
PUBH612/812 Infectious Disease Epidemiology (Fall)	3
TOTAL CREDITS	12

15-credit <i>Biostatistics & Epidemiology</i>	
Courses	Term
PUBH600/800 Biostatistics (Summer, Fall <u>or</u> Spring)	3
PUBH601/801 Public Health Epidemiology (Summer, Fall <u>or</u> Spring)	3
PUBH606/806 Advanced Biostatistics (Spring)	3
PUBH603/803 Advanced Epidemiology (Summer)	3
PUBH611/811 Categorical Data Analysis (Spring)	3
TOTAL CREDITS	15

Course Delivery: Each graduate certificate program is very accessible to individuals who want additional academic education and training at the graduate-level. All courses are offered via a combination of conventional classroom, laboratory (if applicable), and Web-based modes. Required on-campus sessions at the UT Health Science Campus (former Medical University of Ohio) are offered either weeknights (i.e. 5:15pm-9pm) or on Saturdays (i.e. 8:15am-12pm or 12:45pm-4:30pm). Each course during the term offered, typically requires meeting on-campus 8 sessions per term (on alternating weeks) plus completion of off-campus Web-based modules. (Note: The courses required for the certificate programs are already offered as part of the curricula for the ASAC-ABET accredited 40 credit MS Occupational Health (MSOH) and CEPH accredited Master of Public Health (MPH) degree programs. Credits may be applied toward the degree programs, depending on major, for those who continue advanced study beyond the certificate.)

Additional Information: <http://hsc.utoledo.edu/med/pubhealth/index.html>

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Admission Requirements:

- Completed application form <http://utoledo.edu/graduate/prospectivestudents/admission/index.html> plus \$45 Application Fee
- Official transcript of bachelor, professional (e.g., dental; medical), or graduate degree
- Minimum Grade Point Average 3.0/4.0 for "Regular" admission or 2.5 to <3.0/4.0 for "Provisional" admission
- Two letters of recommendation. (Note: Only one letter of recommendation from advisor for current UT graduate and medical students or department chairperson for faculty members and residents)
- Apply by or before April 18 for Summer, July 15 for Fall, or November 18 for Spring admission. (Note: Those who are interested in only taking one or two courses may apply for "Special Status" admission instead of "Regular" admission.)