

# Fast Facts: Graduate Certificate in *Epidemiology or Biostatistics and Epidemiology*



COLLEGE OF HEALTH  
AND HUMAN SERVICES  
THE UNIVERSITY OF TOLEDO

**Graduate Certificates in *Biostatistics and Epidemiology or Epidemiology*:** 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
PUBH 6000/8000 Biostatistics	3
PUBH 6010/8010 Public Health Epidemiology	3
PUBH 6550/8550 Chronic Disease Epidemiology	3
PUBH 6120/8120 Infectious Disease Epidemiology	3
<b>TOTAL CREDITS</b>	<b>12</b>

15-credit <i>Biostatistics &amp; Epidemiology</i>	
Courses	Term
PUBH 6000/8000 Biostatistics	3
PUBH 6010/8010 Public Health Epidemiology	3
PUBH 6060/8060 Advanced Biostatistics	3
PUBH 6030/8030 Advanced Epidemiology	3
PUBH 6110/8110 Categorical Data Analysis	3
<b>TOTAL CREDITS</b>	<b>15</b>

**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 are offered either weeknights (i.e. 5:15 pm-9 pm) or on Saturdays (i.e. 8:15 am-12 pm or 12:45 pm-4:30 pm). 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.)

**For additional information about the program and to apply:**

- **Application:** <http://apply.utoledo.edu> 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).
- **E-mail Address and Phone:** [publichealth@utoledo.edu](mailto:publichealth@utoledo.edu) or 419-383-5356.
- **Mail Address:** School of Population Health, University of Toledo - Health Science Campus, 3000 Arlington Avenue, MS 1027, Toledo, OH 43614