

# CLINICAL EPIDEMIOLOGY - M.S.

College of Public Health  
www.kent.edu/publichealth

## Examples of Possible Careers\*

### Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- \$91,510 potential earnings

## Contact Information

- Program Coordinator: **Karen Baker** | kbaker80@kent.edu | 330-672-2845
- Chat with an Admissions Counselor

## Fully Offered

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

## Admission Terms

- Fall
- Spring (online program only)

### \*Note

Source of occupation titles and labor data is from the U.S. Bureau of Labor Statistics'

Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

## Description

The Master of Science degree in Clinical Epidemiology is a STEM-designated advanced degree that prepares students in the epidemiological and biostatistical methods related to clinical trials and clinical research. Students will learn advanced methods of observational and experimental study designs and be able to understand disease prevention, development, prognosis and treatment. In addition, students will master and be able to apply good clinical practices, clinical trial design and management, statistical analysis, study monitoring, pharmaceutical research and regulations related to clinical research.

## Accreditation

The M.S. degree in Clinical Epidemiology is accredited by the Council on Education for Public Health (CEPH).

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- GRE scores or other standardized graduate admission exam (GMAT, MCAT, LSAT, PCAT)<sup>1</sup>
- Goal statement
- Three letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score - paper-based version
  - Minimum 79 TOEFL IBT - Internet-based version
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

Applicants to the program who have limited clinical or science backgrounds may be advised to take additional coursework to prepare them for the field. Determinations will be made by the admissions committee when the student is admitted conditionally to the program.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> GRE scores may be waived, as determined by graduate coordinator using program criteria. Contact the graduate coordinator for more information.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct patient-oriented research to understand and modify health outcomes
2. Design and carryout epidemiologic studies
3. Analyze clinical data and understand the sources, strengths and limitations of patient data
4. Design and perform clinical trials
5. Interact with human subjects and describe prognosis, therapies and outcomes

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BST 52019	BIostatISTICS IN PUBLIC HEALTH	3
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 52017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3

EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
or EPI 63018	OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH	
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	3
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	3
EPI 63021	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH	3
or PHIL 50005	HEALTH CARE ETHICS	
Major Electives, choose from the following:		5-6
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
EPI 50015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 50196	INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY	
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	
Culminating Requirement, choose from the following: <sup>1</sup>		6
EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY	
EPI 63199	THESIS I	
<b>Minimum Total Credit Hours:</b>		<b>35</b>

<sup>1</sup> All students will be required to present their thesis or research-based practicum to the College of Public Health at a presentation day, either in person or using videoconferencing technology

## Graduation Requirements

Some students may be required to take science-based courses in addition to the requirements for the degree, and therefore, will graduate with more than the listed credit hours.