CLINICAL EPIDEMIOLOGY - M.S.

College of Public Health and Health Sciences
www.kent.edu/phhs

About This Program

Advance the science of better health with a master's in clinical epidemiology, where you'll gain cutting-edge skills in biostatistics, clinical trial design and data-driven research to improve patient outcomes and shape public health decisions. Through hands-on training and flexible online or in-person options, you'll be prepared to lead impactful research careers in healthcare systems, pharmaceutical and biotech companies and government or public health agencies. Read more...

Contact Information

- **Lynette Phillips** | lphill20@kent.edu | 330-672-6324
- Connect with an Admissions Counselor

Program Delivery

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

Examples of Possible Careers and Salaries*

Medical scientists, except epidemiologists

- 8.7% much faster than the average
- 165,300 number of jobs
- $100,590 potential earnings

Accreditation

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

* Source of occupation titles and labor data comes 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.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

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)
- Goal statement
- Résumé
- Two letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET 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.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Spring Semester**
  - Priority deadline: August 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	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 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
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 HPM 62017	HEALTHCARE LAW AND REGULATION	
or PHIL 50005	HEALTH CARE ETHICS	
Major Electives, choose from the following:		6-9
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	

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: [1]		3-6
EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY	
EPI 63199	THESIS I	
Minimum Total Credit Hours:		**36**

[1] All students will be required to present their thesis or research-based practicum to the College of Public Health and Health Sciences at a presentation day, either in person or using videoconferencing technology. Students choosing a 3-credit hour research practicum will take 9 credit hours of electives. Students choosing a 6-credit hour thesis will take 6 credit hours of electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- 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.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

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 carry out 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.

Dual Degree with M.S. in Health Informatics

Students have the opportunity to complete a dual degree program with the M.S. degree in Clinical Epidemiology and the M.S. degree in Health Informatics. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The fully online dual degree prepares students for careers at the intersection of clinical research, data science, healthcare technology and disease prevention and response. Students learn how to build and manage health data systems and analyze and interpret health data.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	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 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	3
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	3
HI 60401	HEALTH INFORMATICS MANAGEMENT	3
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS	3
HI 60403	HEALTH INFORMATION SYSTEMS	3
HI 60410	HEALTH RECORDS MANAGEMENT	3
HI 60411	CLINICAL ANALYTICS	3
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	3
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	3
Health Informatics (HI) Graduate Electives (50000 level or higher) [1]		6
Major Electives, choose from the following: [1]		6
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
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	
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	
LIS 60620	HEALTH INFORMATION RESOURCES	
LIS 61095	SPECIAL TOPICS IN INFORMATION STUDIES	
UX 60511	INFORMATION ARCHITECTURE FUNDAMENTALS	
UX 60541	USER EXPERIENCE EVALUATION FUNDAMENTALS	
Any Health Informatics (HI) Graduate course (50000 level or higher) [1]		

Culminating Requirement

EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY [2]	3-6
or EPI 63199	THESIS I	
Health Informatics Elective, choose from the following:		3-6
HI 66092	MASTER'S INTERNSHIP IN HEALTH INFORMATICS	
HI 66099	MASTER'S PROJECT IN HEALTH INFORMATICS	
HI 66198	MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS	
HI 66199	THESIS I	
Minimum Total Credit Hours:		**60**

[1] A maximum 4 credit hours of HI 60693 and maximum 6 credit hours of HI 61096 may be applied toward the degree.

[2] All students will be required to present their thesis or research-based practicum to the College of Public Health and Health Sciences at a presentation day, either in person or using videoconferencing technology.

Full 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 learn advanced methods of observational and experimental study designs and are able to understand disease prevention, development, prognosis and treatment. In addition, students master and are able to apply good clinical practices, clinical trial design and management, statistical analysis, study monitoring, pharmaceutical research and regulations related to clinical research.