

CLINICAL EPIDEMIOLOGY - M.S.

College of Public Health

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Kent Campus
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Description

The Master of Science degree in Clinical Epidemiology is an advanced program that trains students in the epidemiology and biostatistical methods related to clinical trials and clinical research. Students learn advanced methods of observational and experimental study designs and to understand disease prevention, development, prognosis and treatment. In addition, students understand and are able to apply good clinical practices, clinical trials design, management, statistical analysis, study monitoring, pharmaceutical research and regulations related to clinical research.

Depending on students' background, job opportunities for graduates include clinician researchers leading clinical research teams or as members of research teams who are largely responsible for the methodology to conduct clinical research studies and analyze clinical data. Graduates may also continue their education to pursue a doctoral or professional degree.

Fully Offered At:

- Online
- Hybrid (online/on-ground)
- Kent Campus

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 for unconditional admission
- Minimum 3.0 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores or other standardized graduate admission exam (GMAT, MCAT, LSAT, PCAT)¹
- 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.

¹ 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 |
|---|---|--------------|
| Major Requirements | | |
| BST 52019 | BIostatISTICS IN PUBLIC HEALTH | 4 |
| 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 63018 | OBSERVATIONAL DESIGNS FOR CLINICAL 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 |
| 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 | |

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| EPI 63015 | EPIDEMIOLOGY OF INFECTIOUS DISEASES | |
| Culminating Requirement, choose from the following: ¹ | | 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 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.