

CLINICAL EPIDEMIOLOGY, MSCE

The MSCE is an intensive program for accomplished medical professionals who seek to further their skills as academic investigators. Applicants who possess an advanced degree in medicine, nursing or another health field learn to design controlled epidemiological studies and acquire biostatistical skills that relate directly to their research interests. With close guidance from a primary mentor and a mentorship team, students will gain the ability to hone precise research questions and pursue reliable, complex answers.

For more information: <https://www.cceb.med.upenn.edu/master-science-clinical-epidemiology-msce> (<https://www.cceb.med.upenn.edu/master-science-clinical-epidemiology-msce/>)

Curriculum

The MSCE degree is comprised of 14 course units consisting of required core courses, electives, and mentored thesis credits. MSCE students generally register for two course units per term. It is expected that all students receive a B- or better in each of the courses being applied to the MSCE degree.

| Code | Title | Course Units |
|---|--|----------------|
| Core Requirements | | |
| EPID 5100 | Introductory Epidemiology | 1 |
| EPID 5260A | Biostatistics for Epidemiologic Methods I | 0.5 |
| EPID 5260B | Biostatistics for Epidemiologic Methods I | 0.5 |
| EPID 5270A | Biostatistics for Epidemiologic Methods II | 0.5 |
| EPID 5270B | Biostatistics for Epidemiologic Methods II | 0.5 |
| EPID 5360 | Data Management and Visualization I | 0.5 |
| EPID 5370 | Data Management and Visualization II | 0.5 |
| EPID 5420 | Measurement of Health in Epidemiology | 0.5 |
| EPID 5460 | Clinical Database Research Methodology | 0.5 |
| EPID 5600 | Issues in Research Protocol Development | 0.25 |
| EPID 5700 | Critical Appraisal of the Medical Literature | 0.25 |
| EPID 6400 | Advanced Topics in Epidemiology | 1 |
| EPID 6100 | Tutorial in Epidemiologic Research | 1 |
| Elective Requirements ¹ | | 4 |
| Select a minimum of two course units of electives | | |
| Master's Thesis ¹ | | 2.5-4.5 |
| EPID 9900 | Master's Thesis (Thesis I) | |
| EPID 9900 | Master's Thesis (Thesis II) | |
| EPID 9900 | Master's Thesis (Thesis III) | |
| EPID 9900 | Master's Thesis (Thesis IV) | |
| EPID 9900 | Master's Thesis (Thesis V) | |
| Exam/Thesis Completion | | |
| MSCE Comprehensive Examination Passed | | |
| Final Thesis Approval | | |
| Non-Academic Requirements | | |
| HIPAA Training | | |
| CITI Training | | |
| CCEB Seminars (25) | | |

Bioethics/RCR Training

IRB Approval and/or Exemption

Total Course Units

14

¹ Additional electives may be taken in place of two thesis credits, provided the student's thesis is progressing on schedule and their mentor has approved of the plan. All students are required to complete a minimum of two and a half course units of EPID 9900.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.