

Masters of Science: Epidemiology, Clinical Investigation Sciences

The 25 hours of required course work provide students with a broad base of knowledge in epidemiologic research methods, biostatistics, bioethics and the methodologies of health services and outcomes research. Early in their first semester MSc students are required to identify a faculty member who will serve as a mentor. The MSc in Epidemiology-Clinical Science can be completed in two years. However, a three-year option is also available.

Two Year MSc Option

Year 1

Summer Semester

PHCI 501 – From Bench to Bedside: Introduction to Clinical Research (1)*

Fall Semester

PHCI 611 - Introduction to Clinical Epidemiology (2)

PHST 500 – Introduction to Biostatistics (3)

PHCI 631 – Social and Behavioral Science in Health Care (2)

PHCI 610 – New Drug and Device Development (2)

PHCI 699 – Mentored Research

Spring Semester

PHEP 602 – Epidemiological Methods (3)

PHCI 629 – Special Topics: Epidemiological Methods (1)

PHCI 624 – Clinical Trials I (2)

PHCI 632 – Ethical Conduct of Health Care Research (2)

PHCI 699 – Mentored Research

Year 2

Summer Semester

PHCI 601 - Evaluating the Health Care Literature (1)

PHCI 699 - Mentored Research

Fall Semester

PHCI 625 – Clinical Trials II (2)

PHCI 650 – Medical Decision Analysis (2)

PHCI 602 – Health Services and Outcomes Research (2)*

PHCI 699 – Mentored Research

Spring Semester

PHCI 699 – Mentored Research

NOTE* = a 3 hour course may be substituted for the electives of PHCI 501 and PHCI 602 with the approval of the Program Director.

Three Year MSc Option

Year 1

Fall Semester

PHCI 611 – Introduction to Clinical Epidemiology (2)

PHST 500 – Introduction to Biostatistics (3)

PHCI 699 – Mentored Research

Spring Semester

PHEP 602 – Epidemiological Methods (3)

PHCI 629 – Special Topics: Epidemiological Methods (1)

OR

PHCI 624 – Clinical Trials I (2)

PHCI 699 – Mentored Research

Year 2

Summer Semester

PHCI 501 – From Bench to Bedside: Introduction to Clinical Research (1)*

PHCI 699 – Mentored Research

Fall Semester

PHCI 610 – New Drug and Device Development (2)

PHCI 631 – Social and Behavioral Science in Health Care (2)

PHCI 699 – Mentored Research

Spring Semester

PHCI 632 – Ethical Conduct of Health Care Research (2)

PHCI 624 – Clinical Trials I (2)

Year 3

Summer Semester

PHCI 601 – Evaluating Health Care Literature (1)

PHCI 699 – Mentored Research

Fall Semester

PHCI 625 – Clinical Trials II (2)

PHCI 650 – Medical Decision Analysis (2)

PHCI 602 – Health Services and Outcomes Research (2)*

PHCI 699 – Mentored Research

Spring Semester

PHCI 699 – Mentored Research

NOTE* = a 3 hour course may be substituted for the electives of PHCI 501 and PHCI 602 with the approval of the Program Director.