

Master of Science in Clinical Investigation Sciences

The MSc degree program provides physicians, dentists, nurses and other health professionals an opportunity to acquire the clinical research skills necessary for a career in an academic health center. The 24 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 Clinical Investigation Sciences can be completed in two years; however, a three-year option is also available.

Two-Year Option

Year 1 Summer Semester

PHCI 661 - Introduction to Public Health Informatics (1)

OR

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

Year 1 Fall Semester

PHCI 611 - Introduction to Clinical Epidemiology (2)

PHCI 621 - Fundamentals of Biostatistics (2)

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

PHCI 610 – New Drug and Device Development (2)

PHCI 699 – Mentored Research

Year 1 Spring Semester

PHCI 622 - Design and Analysis of Case-Control Studies (2)

PHCI 623 - Design and Analysis of Cohort Studies (2)

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

Year 2 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

Year 2 Spring Semester*

PHCI 699 – Mentored Research

**Students enrolled in the PhD degree program may begin advanced courses. This option is also available for MSc students enrolled in the 3 year program.*

Three-Year Option

Year 1 Fall Semester

PHCI 611 – Introduction to Clinical Epidemiology (2)
PHCI 621 – Fundamentals of Biostatistics (2)
PHCI 699 – Mentored Research

Year 1 Spring Semester

PHCI 623 - Design & Analysis of Cohort Studies (2)
PHCI 622 – Design & Analysis of Case Control Studies (2)

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

Year 2 Fall Semester

PHCI 610 – New Drug and Device Development (2)
PHCI 631 – Social and Behavioral Science in Health Care (2)
PHCI 699 – Mentored Research

Year 2 Spring Semester

PHCI 632 – Ethical Conduct of Health Care Research (2)
PHCI 624 – Clinical Trials I (2)

OR

PHCI 622 – Design & Analysis of Case Control Studies (2)
PHCI 699 – Mentored Research

Year 3 Summer Semester

PHCI 601 – Evaluating Health Care Literature (1)
PHCI 699 – Mentored Research

Year 3 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

Year 3 Spring Semester

PHCI 699 – Mentored Research