Program Curriculum

Year 1 (17 Units)
Fall (6 Units)
Clinical Research (epidemiological methods in clinical research) (2 units)
Ethical/Legal/Social Issues of Clinical Research & IRB (1 unit)
Biostatistics (biostatistics for clinical research) (2 units)
Seminar Series (Introduction to translational research) (1 unit)

Spring (5 Units)
Clinical Trials (clinical trials design and analysis) (2 units)
Clinical Epidemiology I (2 units)
Seminar Series (Introduction to bioinformatics) (1 unit)

Summer (6 Units)
Outcomes Research (2 units)
Clinical Research II (data management for clinical research) (2 units)
Biostatistics II (applied multivariate analysis in clinical research) (2 units)

Year 2 (16 Units)
Fall (6 Units)
Clinical Epidemiology II (applied clinical epidemiology) (2 units)
Biostatistics III (applied biostatistics analysis for clinical trials) (2 units)
Clinical Research III (Clinical research strategies in diverse communities) (2 units)

Spring (5 Units)
Meta-Analysis, Decision & Cost Effectiveness Analysis (2 units)
Scientific Writing (grant proposal writing and developing publication) (2 units)
Seminar Series (Principles of clinical pharmacology) (1 unit)

Summer (5 Units)
Molecular Methods in Clinical Research (molecular biology and genetics in clinical research) (2 units)
Community Research Survey Methods and Analysis (2 units)
Seminar Series (Principles of quality improvement) (1 unit)

Elective course (3 units): taken at the second year at the partnering program.

Master Thesis (completion of a grant proposal and/or research paper) (6 units)

Total credits: 42 Units

Admission Requirements

- Applicant must be a U.S. citizen, non-citizen national, or U.S. permanent resident.
- **International students are eligible to apply**
- Applicant should hold a doctoral degree in medicine, dentistry, nursing, or other clinical disciplines or Ph.D. degrees or MS degrees. Applicants with Bachelor degrees who are interested in clinical and translational research can apply (please contact the Program Director).
- Evaluation of applicants will include assessment of college and graduate school transcripts, documentation of clinical training for MD, a personal statement, three letters of reference, and an interview.

Cost
Tuition is $750 per unit. Check is made payable to Charles Drew University.

Faculty
Magda Shaheen, MD, PhD, MPH, MS
Martin Lee, PhD
Thomas Yoshikawa, MD
Mohsen Bazargan, PhD
Kevin Heslin, PhD
Jay Vadgama, PhD
Theodore Friedman, MD, PhD
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Keith Norris, MD
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Charles Drew University of Medicine and Science

Master of Science in Clinical Research (MSCR) Degree Program
Pioneering in Health and Education

Website: www.cdrewu.edu
www.cdrewu.edu/research07/page.aspx?pageid=1138

Program Office
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The mission of the Charles Drew University of Medicine and Science (CDU) is to conduct education, research and clinical services in the context of community engagement to train health professionals who promote wellness, provide care with excellence and compassion, and transform the health of underserved communities.

**Goals and Objectives of Program**

The goal of the Master of Science in Clinical Research (MSCR) degree program is to train qualified candidates in clinical and translational research with a solid foundation in clinical and translational investigative methodologies, biostatistics, clinical trials, collaborative science, research conduct and ethics, grantmanship, publication practices, and a unique understanding of the cultural and ethical issues that impact the health care.

The degree also provides the health professional with an educational foundation necessary for more rapid advancement and expansion of their scholarly activities.

The benefits associated with this MSCR degree will extend beyond the basics of research and will include the following:

- Conceptualization and relevance of hypothesis-driven research
- Understanding the principles of evidence-based medicine
- Biostatistics for medical and biological research
- Research in vulnerable populations (ethnic minorities, women, elderly)
- Methodologies of health disparities
- Clinical trials design and analysis
- Developing scientific written and oral communication skills
- Research conduct and management
- Ethical, legal and social issues of responsible clinical research

**Program Overview**

In keeping with CDU commitment to clinical and translational research development, we are pleased to offer the MSCR degree.

The clinical research degree is designed to help prepare participants for careers in clinical and translational research, academic health care, and public health as well as leadership in public government/private industry as it relates to health care.

The MSCR program is uniquely scheduled to allow professionals to work full time while earning their MSCR degree in 2 years.

**Program Specifics**

The MSCR program is a structured 24-month curriculum conducted by experienced faculty and focuses on epidemiology, biostatistics, clinical trials, evidence-based medicine, meta-analysis and cost-effectiveness analysis, decision analysis, molecular biology and genetics, research ethics, translational research and scientific writing.

In addition to satisfactory completion of classroom didactic courses, the MSCR scholar must complete a research grant and/or scientific article for a peer-reviewed journal to graduate with this degree.

There are three semesters (fall, spring and summer) each year. Classes are conducted twice a week at 4:00 pm to 6:00 pm. (or 5:30 pm to 7:30 pm).

In addition, a seminar series involving noted researchers to discuss various aspects of research as well as allowing MSCR scholars to present their research proposals and progress is scheduled twice a month at 4:00 pm to 6:00 pm (or 5:30-7:30 pm).

- The program started in July 2004.
- Recruitment is yearly.
- The start date for the new group of the MSCR scholars is **Fall semester**.
- Space is limited to 15 to 20 qualified candidates.