Translational Biomedicine

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Graduate degree: M.S. in translational biomedicine
Website: https://icts.uiowa.edu/

The Translational Biomedicine Program offers training in translational biomedicine, biostatistics, ethics, and in various elective areas while providing time to conduct mentored research under the direction of an interdisciplinary team. It is specifically tailored to clinicians in medicine, nursing, pharmacy, dentistry, and psychology.

Related Certificate
Translational and Clinical Investigation
The Department of Epidemiology and the Institute for Clinical and Translational Science offer the graduate certificate program in translational and clinical investigation; see the Certificate in Translational and Clinical Investigation (College of Public Health) in the Catalog.

Programs

Graduate Program of Study
Major
• Master of Science in Translational Biomedicine

Facilities
Training is conducted mainly in the laboratories and teaching facilities of the Carver College of Medicine and the College of Public Health. The University of Iowa Institute for Clinical and Translational Science is available for research training. The program also is linked with the Carver College of Medicine's graduate training program in clinical research.

Courses

Translational Biomedicine Courses
TBM:3001 Introduction to Translational Research 2 s.h.
Array of scientific studies translated into clinical solutions; creative ideas balanced with practical strategies for implementation at bedside; expansive number of career opportunities becoming available in translational sciences. Requirements: admission to clinical and translational science certificate program.

TBM:3002 Practicum in Clinical and Translational Science 2 s.h.
How research experience translates into clinical practice; translational impact of independent research; summary of research accomplishments; outline of a translational paper that is mutually acceptable to student, preceptor, and faculty; submission of paper and completion of poster presentation describing research project and translational application of research. Requirements: admission to clinical and translational science certificate program.

TBM:5000 Translational Biomedical Research arr.
Student research guided by mentor.

TBM:5001 Introduction to Translational Biomedicine 3 s.h.
Basis for clinical and translational research; introduction to principles of experimental design for patient- and population-oriented research; approaches available to clinical and translational investigators (e.g., statistics, questionnaires, ethics, imaging, information technology); infrastructure that supports clinical and translational investigators at the University of Iowa and nationally; for early-career clinicians/scientists and established investigators. Requirements: enrollment in translational biomedicine M.S. program.

TBM:5002 Critical Thinking and Communication: Study Design and Commercialization 1 s.h.
Various study design methodologies and process of commercialization; presentations of current projects. Requirements: candidacy for M.S. in translational biomedicine.

TBM:5003 Critical Thinking and Communication: Scientific Writing and Presentation Strategies 1 s.h.
Grant development and journal writing process; development of effective scientific presentations.

TBM:5004 Critical Thinking and Communication: Career Development and the Funding Process 1 s.h.
Introduction to a variety of career development awards and their requirements; opportunity to work on personal career development grant applications.

TBM:5005 Critical Thinking and Communication: Leadership, Team Science, and Mentoring 1 s.h.
Leadership skills for managing and developing a research team; leading and organizing a team; managing and sharing resources with other faculty and fellows; finding, hiring, and keeping good people; leading productive meetings; delegation strategies; resources and tools for mentors; information on applying and teaching leadership skills to mentees.