**TRANSLATIONAL HEALTH SCIENCES (THS)**

**Explanation of Course Numbers**

- Courses in the 1000s are primarily introductory undergraduate courses.
- Those in the 2000s to 4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work.
- Those in the 6000s and 8000s are for master’s, doctoral, and professional-level students.
- The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office.

THS 6101. Survey of Advanced Quantitative Methods for Health Services and Outcomes Research. 3 Credits.
Introduction of advanced quantitative methods frequently adopted for health services and outcomes research. Restricted to students in the graduate certificate in health services and outcome research program or with permission of the instructor. Prerequisites: HSCI 6263 and HSCI 6270.

THS 6102. Decision Making and Economic Evaluation in Health Care. 3 Credits.
Basic principles of economic evaluation methods. Familiarity with basic algebra is assumed. Restricted to students in the graduate certificate in health services and outcome research program or with the permission of the instructor. Prerequisites: HSCI 6263 and HSCI 6270.

THS 8101. Foundations in Translational Health Sciences. 3 Credits.
The study of translational research, implementation and dissemination science, and collaboration and team science within the context of current health legislation. Restricted to students in the PhD in translational health sciences program or with permission of the instructor.

THS 8103. Principles of Collaboration and Team Science. 3 Credits.
Foundational and practical principles of collaboration and team science. Restricted to students in the doctorate in occupational therapy and the PhD in the field of translational health sciences degree programs or with instructor’s permission.

THS 8105. Translational Health Sciences in Complex Health Systems. 3 Credits.
An analysis of health systems as complex adaptive systems, including barriers, facilitators, and opportunities for change and innovation. Restricted to PhD in the field of translational health sciences degree candidates; instructor’s permission may be substituted.

THS 8107. Program Theory and Health Innovations. 3 Credits.
Program theory as the basis for designing health and educational innovations that can be tested using scientific methods, replicated in practice, and used to inform policy. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8109. Implementation Science and Innovation Leadership. 3 Credits.
Introduction to implementation science, the study of processes affecting uptake of evidence into healthcare, with emphasis on innovation leadership for systemic change. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8121. Advanced Study Design for Translational Research. 3 Credits.
Advanced measurement and design topics needed for translational health science research. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8123. Qualitative Methods in Translational Health Sciences. 3 Credits.
Qualitative methods and designs applicable to translational health science research problems; qualitative epistemology, methods, data collection, and data analysis. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8125. Advanced Statistical Methods for Clinical and Translational Research. 3 Credits.
Advanced data management and analytic techniques required for testing hypotheses in translational health research. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission. Recommended background: Completion of graduate-level epidemiology and biostatistics courses.

THS 8127. Systematic Reviews of Health Care Innovations. 3 Credits.
Students refine skills in developing a systematic review of the literature for healthcare innovations, including interventions, educational programs, and products. Restricted to students in the PhD in translational health sciences program or with permission of the instructor. Recommended background: Experience in quantitative research design.

THS 8201. Learning Theory and Models for Knowledge Translation in Health Systems I. 3 Credits.
Introduction to the theories and models of learning and knowledge translation to facilitate behavior change. Restricted to students in the PhD in translational health sciences degree program in good standing.
THS 8203. Bioethical Implications of Health Research. 3 Credits.
Role of ethics theories and bioethics principles in health research. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8205. Learning Theory and Models for Knowledge Translation in Health Systems II. 3 Credits.
Application of theories and models of learning and knowledge translation to the design and evaluation of interventions for learning and behavior change. Restricted to students in the PhD in translational health sciences degree program in good standing. Recommended background: Completion of THS 8201.

THS 8212. Teaching Strategies in the Health Professions. 3 Credits.
Teaching skills pertinent to the delivery of education in health professions. Course design illustrates teaching and learning practices grounded in andragogy, contributing to curriculum program objectives of enhancing teaching skills. Permission of the instructor is required prior to enrollment. Restricted to SMHS students.

THS 8214. Information Literacy for Health Professionals. 3 Credits.
Enhancing critical thinking skills related to use of the literature; employing rigorous review of knowledge and evidence in an identified health education topic area; and drafting the literature review portion required for a dissertation. Permission of the instructor required prior to enrollment. Restricted to College 10. Recommended background: Students should have basic skills in literature review and have identified a topic area for further study.

THS 8221. Mixed Methods Research in Translational Health Sciences. 3 Credits.
Use of mixed methods as a legitimate design tradition to address translational research questions. Restricted to students in the PhD in translational health sciences degree program in good standing or with instructor’s permission.

THS 8961. Proposal Defense Preparation. 3 Credits.
Preparation for successful completion of the dissertation proposal and defense process Restricted to students in the PhD in translational health sciences degree program.

THS 8992. Directed Study. 1 Credit.
May be repeated for credit. Restricted to students in the PhD in translational health sciences degree program.

THS 8996. Dissertation Seminar I. 3 Credits.
Doctoral students prepare for the first three chapters of their dissertation. Restricted to students in the PhD in translational health sciences degree program with a successfully defended dissertation proposal.

THS 8997. Dissertation Seminar II. 3 Credits.
Preparation for fourth chapter of dissertation. Restricted to students in the PhD in translational health sciences degree program with a successfully defended dissertation proposal.

THS 8998. Dissertation Seminar III. 3 Credits.
Preparation for fifth chapter of dissertation. Restricted to students in the PhD in translational health sciences degree program with a successfully defended dissertation proposal.