

# 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-level undergraduate courses that can also be taken for graduate credit with permission and additional work assigned
- 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 Healthcare. 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. Credit cannot be earned for this course and HSCI 6285.

### **THS 8104. Study Design for Translational Health Research. 3 Credits.**

Overview of the range of investigative models within the translational research spectrum, with a foundational understanding of a variety of research designs. Restricted to students in the PhD in translational health sciences or with the permission of the instructor.

### **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. Credit cannot be earned for this course and OT 8274.

### **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 the permission of the instructor.

### **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 the permission of the instructor. Recommended background: Completion of graduate-level courses in epidemiology and biostatistics.

### **THS 8127. Systematic Reviews of Healthcare 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 8202. Knowledge Translation in Complex Health Systems. 3 Credits.**

Theories, frameworks and models of knowledge translation used to facilitate knowledge use and change in complex health systems. Prerequisites: students in the PhD in translational health sciences program or with the approval of the instructor.

**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. Credit cannot be earned for this course and MLS 6244.

**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 8206. Translating Literature for Interdisciplinary Scholarship. 3 Credits.**

The processes and methods for translating scholarly research to an interdisciplinary stakeholder group. Restricted to students in the PhD in the translational health sciences program or with the instructor's approval.

**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. Credit cannot be earned for this course and HSCI 6212.

**THS 8214. Information Literacy for Health Professionals. 3 Credits.**

Enhancement of critical thinking abilities related to use of the literature to engage in a rigorous review of knowledge and evidence in self-identified translational health topic area. Permission of the instructor is required prior to enrollment. Restricted to students in the PhD in translational health sciences degree program or with the permission of the instructor. Recommended background: Basic skills in literature review.

**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 8223. Advanced Qualitative Methods. 3 Credits.**

Data collection, management, analysis, and interpretation. Practical skill building in qualitative methods, with a particular focus on participatory action research and discourse analysis. Restricted to doctoral students in good standing in the translational health sciences program or in other GW doctoral programs with the instructor's approval. Prerequisites: Prior completion of 3 credits in an introductory qualitative methods course.

**THS 8225. Grounded Theory Research. 3 Credits.**

Introduction to grounded theory research, a qualitative research method reflected in social constructivism. Application of methods and techniques frequently used in such research; designing elements of a grounded theory study. Restricted to doctoral students in good standing in the translational health sciences program or in other GW doctoral programs with the instructor's approval. Prerequisites: Prior completion of 3 credits in an introductory qualitative methods course.

**THS 8227. Survey Methods for Translational Health Sciences. 3 Credits.**

Theory and practices behind survey research design, and application of this methodology to translational health science. Restricted to students in the PhD in translational health sciences program or with the instructor's approval.

**THS 8961. Proposal Defense Preparation. 3 Credits.**

PhD students prepare for successful completion of the proposal defense and dissertation process. Restricted to Candidates who have successfully passed comprehensive examinations.

**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.**

First in a three-course series. Candidates for the PhD in translational health sciences degree begin work on their dissertation. Restricted to those who have successfully passed comprehensive examinations and defended their dissertation proposal. Prerequisites: THS 8961.

**THS 8997. Dissertation Seminar II. 3 Credits.**

Second in a three-course series. Candidates for the PhD in translational health sciences degree continue work on their dissertation. Restricted to those who have successfully passed comprehensive examinations and defended their dissertation proposal. Prerequisites: THS 8996.

**THS 8998. Dissertation Seminar III. 3 Credits.**

Third in a three-course series. Candidates for the PhD in translational health sciences degree continue work on their dissertation. Restricted to those who have successfully passed comprehensive examinations and defended their dissertation proposal.