

# CLINICAL & TRANSLATIONAL RESEARCH (CTR)

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## **CTR 901 SEMINAR IN CLINICAL & TRANSLATIONAL RESEARCH GRANTSMANSHIP I 2 Credit Hours**

This course is designed to understand the concepts and guidelines involved in the writing of clinical and translation research grant applications. Emphasis will be given to learning the art and science of grant writing using the NIH format. Detailed discussions of sample funded K, R21, and R01 grants will be performed. Elements of NIH grant applications will be discussed from research strategy, subject recruitment, IRB regulations, and budget.

Prerequisite: This course is only open to faculty admitted to the CTR Mentored Scholars Program or permission of Instructors.

Typically Offered: FALL

## **CTR 903 MULTIDISCIPLINARY TEAM SCIENCE AND CONCEPT BUILDING 2 Credit Hours**

This seminar introduces the scholars to the need for multidisciplinary team building and various multidisciplinary conceptual models used in behavioral science, information and communication theories, and assessment of the quality of health care. The Scholars are asked to build an investigative team that fits their planned studies, while critically understanding the roles, skills, and contributions of each member of the team to complete a study.

Prerequisite: CTR 901 or permission of instructor. CTR 903 only CTR students

Typically Offered: SPRING

## **CTR 910 HEALTH-RELATED INSTRUMENT CONSTRUCTION & EVALUATION 3 Credit Hours**

This course provides a knowledge base and experience in the inductive and deductive process for constructing and evaluating instruments to measure psychosocial, behavioral, biophysiological and clinical phenomena.

Prerequisite: BIOS 806 or BIOS 808 or two courses that meet statistics requirements of the doctoral program or permission of instructor.

Cross List: NRS 910.

Typically Offered: SUMMER

## **CTR 914 MANAGEMENT OF CHRONIC ILLNESSES 3 Credit Hours**

Chronic illness is the major health problem today, and requires interdisciplinary teams to prevent and manage such illnesses. This course will focus on chronic disease frameworks and models and research methods to prepare for a program of research that addresses the management of chronic illnesses. Concepts such as healthy lifestyle behaviors, adherence to medical regimen, patient activation to adhere to therapeutic regimen, patient and family resilience, care giving, risk, vulnerability and disability, symptom management, economic considerations, and planning for the future.

Prerequisite: Multivariate statistics or permission of instructor.

Typically Offered: FALL

## **CTR 923 RURAL HEALTH RESEARCH: CONSIDERATIONS AND IMPLICATIONS 3 Credit Hours**

This course focuses on understanding the issues to conducting research in rural and disparate populations. Emphasis is placed on content related to challenges and disparities in rural health, health care access and health care policy, and strategies for conducting research such as the use of technology, considerations of the environment and community needs. Legal, ethical, political and economic indications for research in rural areas will be discussed.

Prerequisite: multivariate statistics or permission of instructor.

Typically Offered: SPRING

## **CTR 928 TRANSLATIONAL AND INTERDISCIPLINARY OUTCOMES RESEARCH 3 Credit Hours**

This course focuses on outcomes: measurement, management, and evaluation of health care outcomes and translational research as a process that drives the clinical research engine. The Medical Outcomes Study conceptual framework (Structure of Care, Process of Care, and Outcomes) with an emphasis on the broad categories of outcome types: clinical end points, functional status, general well-being, satisfaction with care, and economic evaluations will be employed. Different translation approaches will be discussed T1-T4 (with an emphasis on T2-T4) along with common and unique research methods used. Legal, ethical, political and economic implications for practice and research will be discussed.

Prerequisite: multivariate statistics or permission of the instructor.

Typically Offered: FALL

## **CTR 998 SPECIAL TOPICS 1-2 Credit Hours**

This course is restricted to scholars in the Clinical Translational Research Mentored Scholars program who wish to work on their individual research interests. The topic of research and end of course deliverables must be approved by the CTRMSP program director along with the scholars' advisor prior to enrollment.

Typically Offered: FALL/SP/SU