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# WAKE FOREST UNIVERSITY

GRADUATE SCHOOL *of*  
ARTS AND SCIENCES

## *Master's Program in Clinical and Population Translational Sciences*

### **Program Objectives**

The primary objective of the Master of Science Graduate Program in Clinical and Population Translational Sciences (CPTS) is to enable students to develop competencies to conduct clinical, translational, and population research, including health services and/or community research, to improve human health.

### **Program Rationale**

Developing translational research skills among clinical and population scientists is vital for the future success of health-oriented research. Over the years, the science and disciplines that contribute to translational and clinical research have become increasingly complex. There is a growing need to provide interdisciplinary and translational training to ensure that rapid and fundamental advances in the biomedical and behavioral sciences will be used in clinical and population research, health care and public health.

Clinical research focuses primarily on the causes, management and outcomes of diseases in individuals; whereas, population science is focused on the distribution, determinants and impact of health and disease states in large populations. Translational research includes two areas of translation. One is the process of applying discoveries generated during laboratory research and/or preclinical studies to the development of trials and studies in humans. The second area of translation is research to enhance the adoption of best practices in health care settings and the community. The term 'science' describes the discovery of new knowledge about health and disease prevention, pre-emption, and treatment, as well as methodological research to develop or improve research tools. The graduate program in Clinical and Population Translational Science focuses on clinical and population research and the second area of translational research described above.

### **Eligibility**

This program is designed to train clinical and population scientists who already have advanced degrees (e.g., M.D., Ph.D., Dr. P.H.), as well as those in training (e.g., M.D. students; P.A. students, PhD students). A limited number of professional research staff, who are interested in developing the required competencies for the conduct and translation of clinical and population research, may also be considered. These applicants will be reviewed on a case-by-case basis. In these instances, a master's degree or other previous, long-term experience in a health-related field is highly desirable. Applicants without such previous experience may be asked to complete additional post-baccalaureate education in biomedical sciences prior to beginning the course of study.

## Program of Study

The MS degree will require at least 30 hours of work with an overall GPA of 3.0 or higher. A thesis of publishable quality must also be completed.

Students may only enroll in the program at the beginning of the fall semester each year. This program will normally require two years of study. Course work is concluded by the end of the summer semester of the first year. The second year is devoted to the completion of the thesis. All work must be completed within six years of the date of initial enrollment in the graduate program. Applications for part-time study are reviewed on a case-by-case basis.

The required courses are listed below. Currently, all classes are held from approximately 8:00 am to 5:00 pm on Tuesdays and Thursdays. These class days, however, may be subject to change for the 2008-2009 academic year.

### Fall Year 1 (14 credits)

- CPTS 701 Foundations of Clinical and Translational Science (3) \*
- CPTS 730 Introduction to Statistics (4)
- CPTS 720 Epidemiology (3)
- CPTS 748 Social and Behavioral Theories in Clinical/Population Translational Research (2)
- GRAD 713 Scientific Professionalism: Scientific Integrity (1)
- GRAD 715 Scientific Professionalism: Bioethics and Social Responsibility (1)

### Spring Year 1 (13 credits)

- CPTS 742 Clinical Trial Methods (3)
- CPTS 732 Applied Linear Models (4)
- CPTS 744 Measurement Methods in Clinical and Population Science (1)
- CPTS 708 Health Services Research Methods (3) *or* \*\*
- CPTS 746 Community Research Methods (3)
- GRAD 714 Scientific Professionalism: Scientific Integrity (1)
- GRAD 716 Scientific Professionalism: Bioethics and Social Responsibility (1)

### Summer Year 1 (6 credits)

- CPTS 705 Team Science Practicum (3) \*
- CPTS 741 Research Grant Preparation (3)

### Year 2 until end

Thesis Research

\* Core course shared with Molecular Medicine Translational Science Students

\*\* Students may take either CPTS 708 or CPS 746 in the spring semester

## **Financial Aid**

A small number of tuition scholarships are available to qualified applicants who are enrolled in the program full-time. No research or teaching assistantships or stipends to pay for students' living expenses are available. The Wake Forest University School of Medicine has fellowship programs in some specialties for M.D. applicants. Post-doctoral fellowships are also available in cancer prevention and control for qualified M.D. and Ph.D. applicants. Queries regarding these fellowship programs should be directed to the CPTS program co-directors listed below.

## **Program Faculty**

The CPTS M.S. program is administered out of the Division of Public Health Sciences and the newly formed Translational Science Institute (TSI) on the Bowman Gray Campus of Wake Forest University. Faculty are also drawn from biomedical science departments at the Wake Forest University School of Medicine, as well as the Wake Forest University Schools of Law and Divinity.

Program Co-Directors are: Dr. David Goff, M.D., Ph.D.  
Dr. Michelle Naughton, Ph.D., M.P.H.

## **For Further Information About the Program Contact:**

Ms. Joan Beane, Administrative Assistant for the  
Graduate Program in Clinical and Population Translational Sciences  
Division of Public Health Sciences  
Wake Forest University School of Medicine  
Winston-Salem, NC 27157-1063  
Phone: 336-716-9513  
[jbeane@wfubmc.edu](mailto:jbeane@wfubmc.edu)

## **Location of Web Sites**

<http://www.wfu.edu/graduate> For information about the WFU Graduate School  
<http://www.phs.wfubmc.edu> For information about the Division of Public Health Sciences  
<http://www.wfubmc.edu> For information about the WFU School of Medicine

## **To Obtain an Application**

Either visit the web sites listed above, send an e-mail to [bggrad@wfubmc.edu](mailto:bggrad@wfubmc.edu), or write to the Wake Forest University Graduate School, Biomedical Sciences, Medical Center Boulevard, Winston-Salem, NC 27157-1001; phone 1-800-GET-GRAD, (local 716-4224).

**Application Deadline for Fall 2008 Admission:** January 15, 2008