HEALTH CARE SCIENCES • clinical nutrition • emergency medicine
education • physical therapy • physician assistant studies • prosthetics-orthotics • radiation therapy • rehabilitation counseling
HEALTH CARE SCIENCES

**ACTING CHAIR**
Jon W. Williamson, Ph.D.

**FACULTY**

**PROFESSORS**

- Raul Caetano  
  M.D., State University of Rio de Janeiro, Brazil, 1969; M.P.H., Ph.D., University of California, Berkeley, 1979, 1983

- Gordon Green  
  M.D., UT Southwestern Medical Center, 1968

- Helmut Krämer  
  Ph.D., University of Cologne, Germany, 1989

- Scott Smith  
  Ph.D., University of North Texas Health Science Center, 1999

- Jon W. Williamson  
  Ph.D., University of North Texas Health Science Center, 1992

**ASSOCIATE PROFESSORS**

- Kim Hoggatt Krumwiede  
  M.A., UT Southwestern Medical Center, 1994

**ASSISTANT PROFESSORS**

- Anne C. Freeman  
  M.S.P.H., University of North Carolina at Chapel Hill, 1979

- Palma Longo  
  Ph.D., Columbia University, 2001

- Lori Millner  
  Ph.D., Texas Woman’s University, 1999

**ADJUNCT FACULTY**

- Eric Hoy, Clinical Associate Professor  
  Ph.D., University of Illinois, Chicago, 1987

- Thomas H. McConnell III, Clinical Professor  
  M.D., UT Southwestern Medical Center, 1962

- Masaki Muzuno, Clinical Instructor  
  Ph.D., Waseda University, Japan, 2005

- Alisa Winkler, Clinical Instructor  
  Ph.D., University of California, Los Angeles, 1977

**OBJECTIVES**

This Department provides basic and interdisciplinary courses available to all health professions Programs. In addition, it serves as an administrative base for the Prosthetics-Orthotics, Radiation Therapy, and Emergency Medicine Education Programs, along with the Area Health Education Center and the Community Prevention and Intervention Unit.
The Department is also home to the Division of Health Care Education and Research. The division directs and supports interdisciplinary education and research, not only between UT Southwestern School of Health Professions Departments and Programs, but also within the entire Medical Center.

Enrollment in many courses in this section is restricted. Students interested in taking any of the following courses as electives should consult their advisors or the Office of the Dean.

Course Descriptions

- **Basic Biomedical Sciences**
  - **HCS 5207 Introduction to Neuroscience**
    2 Semester Hours
    This course consists of lectures and small-group laboratory sessions. It is offered by Neurology and Neuropathology from UT Southwestern Medical School, with assistance from Cell Biology, Physiology, Psychiatry, Anesthesiology and Pain Management, Neuroradiology, and Neuroscience. Basic concepts in anatomy, cellular physiology, and neural-systems physiology are covered in the course. Emphasis is given to the practical application of these basic anatomical and physiological principles to human neuroscience and neuropathology.

- **HCS 5230/5330 Health Care Research**
  2-3 Semester Hours
  Instruction provides an overview of the research process, with focus on evidence-based health care research. Lecture topics include critical literature evaluation, research theory, measurement, design, statistical analysis, and interpretation. Small-group sessions with research advisers emphasize practical application of research concepts and foster project development. Admission to HCS 5230/5330 is limited to students enrolled in the Radiation Therapy, Rehabilitation Counseling, Physical Therapy, Physician Assistant Studies, Clinical Nutrition, and Prosthetics-Orthotics Programs.
HCS 5306 INTRODUCTION TO PATHOLOGY (LECTURE AND DEMONSTRATION)  
3 SEMESTER HOURS  
This course offers an introduction to general pathology. Basic pathologic processes are emphasized, and specific disease entities are used extensively to illustrate principles. Clinical manifestations of disease are correlated with their pathology. Admission to HCS 5306 is limited to students enrolled in the Physician Assistant Studies, Physical Therapy, and Prosthetics-Orthotics Programs.

HCS 5308 HUMAN ANATOMY (LECTURE)  
3 SEMESTER HOURS  
Instruction offers a comprehensive study of the structure and function of human body systems and their mechanisms. Emphasis is placed on the major characteristics of each body system and its relationship to other systems. Lectures emphasize basic correlative clinical concepts. Admission to this course is limited to students enrolled in degree-granting Programs at UT Southwestern including Physical Therapy, Physician Assistant Studies, and Prosthetics-Orthotics.

HCS 5309 HUMAN ANATOMY DISSECTION LABORATORY  
3 SEMESTER HOURS  
This course presents an advanced study of the human body and includes cadaver dissection. Admission to HCS 5309 is limited to Physical Therapy, Physician Assistant Studies, and Prosthetics-Orthotics Programs.  
Prerequisite: Concurrent enrollment in HCS 5308.

HCS 5407 HUMAN PHYSIOLOGY  
4 SEMESTER HOURS  
A comprehensive study of the basic functions of the body systems and their interrelationships is offered in this course. Admission to HCS 5407 is limited to students enrolled in the Physical Therapy, Physician Assistant Studies, and Prosthetics-Orthotics Programs.

Behavioral Sciences and Other Courses

HCS 5106 PROFESSIONAL DEVELOPMENT  
1 SEMESTER HOUR  
This course introduces the major principles and issues involved in interpersonal skills for interdisciplinary health care. Topics covered include interpersonal effectiveness, verbal and nonverbal communication, building teams, managing conflict, behavioral change, and ethics.