

- RHB 625 MUSCLE FORUM. (1)**  
Muscle Forum is a course that will allow students to develop critical evaluatory skills for seminars and grant writing in the field of Muscle Biology. Prereq: Students need to be enrolled in the Rehabilitation Sciences doctoral program, one of the graduate programs of the Integrative Biomedical Sciences, or with permission of the course director. (Same as PGY 625.)
- RHB 701 REHABILITATION THEORIES AND APPLICATION THROUGH THE LIFE SPAN. (3)**  
Explores the theories common to all the rehabilitation therapies (PT, CD, OT) and that form a foundation for the rehabilitation sciences. Included are theories specific to rehabilitation, attachment, adaptation and resilience, cognition, motor learning, empowerment, loss and grief, psycho-immunology, and the societal responses to stigmatized groups. Theories are applied to rehabilitation practice and research design across the life span. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.
- RHB 710 NEUROPLASTICITY IN REHABILITATION. (3)**  
This course will examine the neurological principles utilized by each of the rehabilitation disciplines (PT, OT, SLP) in the context of current research data and determine whether these principles hold up to scientific examination. The format of this course will utilize formal lectures on current theories of neuroplasticity and class discussion on current literature in each of these areas. Case studies will be utilized to apply current theories to practical application within each of the listed disciplines. Prereq: Course in Neuroanatomy, Admission to the Rehabilitation Sciences Doctoral Program or by consent of the instructor.
- RHB 712 PHARMACOLOGY IN REHABILITATION. (2-3)**  
This course will provide the basic science background necessary to understand the effects of medications on patients treated in the rehabilitation setting and the their influence on treatment. Topics will include mechanisms of drug action, side effects, and how age and disease alter those mechanisms. The course will also address newly developing drug treatment strategies, including those in clinical trials. Students may either take the course for two credits or complete an additional advanced project for 3 credits, as outlined in the syllabus. The advanced project will enable the more interested student to pursue a topic in greater depth. Prereq: Admission to the Rehabilitation Sciences Doctoral Program or consent of instructor.
- RHB 714 CRITICAL APPRAISAL OF RESEARCH IN REHABILITATION SCIENCES. (3)**  
This course will introduce the student to critical appraisal of all forms of research in the Rehabilitation Sciences. The purpose of this course is to further develop the student's competence in carrying out and evaluating research. The student will develop the skills necessary to find, critically evaluate, and synthesize the available research.
- RHB 720 RESEARCH IN THE REHABILITATION SCIENCES. (3)**  
The purpose of this course is to provide a critical review of the current practices in research methodologies in rehabilitation and investigate the consequences of selecting various research methodologies and analytic strategies.
- RHB 744 ADVANCED TOPICS IN MOTOR DEVELOPMENT. (3)**  
Investigation of motor development, control, and learning and teaching strategies in pediatrics. In depth analysis of movement for specific function tasks and motor dysfunction with identification of both primary and secondary designated problem areas in children with neuro-developmental concerns. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.
- RHB 749 DISSERTATION RESEARCH IN REHABILITATION SCIENCES. (0)**  
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Admission to the Rehabilitation Sciences Ph.D. program.
- RHB 767 DISSERTATION RESIDENCY CREDIT. (2)**  
Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.
- RHB 769 RESIDENCE CREDIT FOR THE DOCTORAL DEGREE. (0-9)**  
May be repeated to a maximum of 18 credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program.

**RHB 770 PROFESSIONAL SEMINAR IN REHABILITATION SCIENCES. (0-3)**

A study of selected topics related to leadership issues in the Rehabilitation Sciences with emphasis on recent research and theory related to higher education and to the communication disorders, occupational therapy, physical therapy, and athletic training disciplines. Sample topics include research methods and current topics, interdisciplinary issues, health systems, grant writing, teaching and learning in higher education, and the culture of colleges and universities. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 787 TEACHING APPRENTICESHIP IN REHABILITATION SCIENCES. (1-4)**

Study of instructional methods in higher education including development of syllabi, class presentations, and examinations. Emphasis on classroom dynamics and innovative techniques for instruction. May be repeated to a maximum of four credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program in communication disorders or physical therapy or consent of the instructor.

**RHB 788 INDEPENDENT STUDY IN REHABILITATION SCIENCES. (1-3)**

Independent study for graduate students interested in specific interdisciplinary topics in Rehabilitation Sciences. May be repeated to a maximum of six credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 789 RESEARCH APPRENTICESHIP IN REHABILITATION SCIENCES. (1-9)**

In-depth study of a discipline specific topic under the direction of a member of the graduate faculty. Emphasis on scientific method including development of a research question, methodology, data collection and analysis. Students will complete a supervised research project during the course. Variable credit hours repeatable to a maximum of 21 credit hours. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.