Program Information
Ph.D. in Rehabilitation Science

The Ph.D. in Rehabilitation Science program is an interdisciplinary program offered by The Department of Occupational Therapy and The Department of Physical Therapy at the School of Health Professions. This exciting program is designed to prepare graduates to become*:

- Academicians, scholars, scientists and researchers in education, health care, industry, and government institutions.
- Consultants to individuals, communities, and governments.

The goal of the Program is to prepare graduates to have the following skills:

- Design and implement research studies that will contribute to the knowledge base of rehabilitation science.
- Design and deliver educational courses related to rehabilitation.
- Translate innovative rehabilitation research findings into practice so as to advance the field of rehabilitation science.

* The aim of this program is to prepare candidates to become leaders in teaching and research within the field of Rehabilitation Science. However, this is not a clinical training program. Applicants planning to become occupational therapists or physical therapists should visit the following websites to pursue training in these two professions: www.uab.edu/ot or www.uab.edu/pt.

Minimum Requirements for Admission

- Note that each application will be reviewed by the Admission Committee to identify individuals with strong commitment and aptitude to perform research related to Rehabilitation Science, along with strong academic preparation and professional-leadership potential.
- Undergraduate or graduate degree in occupational or physical therapy, engineering, exercise science, neuroscience, medicine, nursing, or other health related professions.
- Recommended minimum GPA 3.0/4.0 in all previous coursework
- Three strong evaluation references, with at least one from a research lab mentor, and one from an academic source.
- With the written essay, provide evidence of appropriate goals of study, professional growth and commitment to research, with special emphasis on interest in research that is being conducted at UAB.
- Interview with faculty that shows passion and commitment to research and professional growth in Rehabilitation Science.

For further information contact:
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PhD Program in Rehabilitation Science
205-934-4644
e-mail: elewis06@uab.edu

Typical Program
(Course requirements are listed in semester credit hours)

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Total credit hours: 90-105

*The degree plan will vary by the student’s academic discipline and preparation upon entry to the PhD in Rehabilitation Science Program.
A Sample of possible Elective Courses Currently Offered at UAB

**Requirements** | **Hours**
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Concentration Electives: These are electives in a specific disease, population, or content area of interest  
RHB 590 Quantitative Biomechanics of Injury and Rehabilitation  
NCH 760 Child Health Theories and Concepts  
NTR 650 Body Composition and Energy Metabolism  
OT 677 Foundations in Low Vision Rehabilitation I  
Academic Writing Electives: These are electives that focus on developing writing skills for scientific publications and/or preparation  
GRD 706 Grants and Fellowships 101  
GRD 708 Writing Successfully  
GRD 709 Writing Fellowships  
GRD 722 Writing Research for Broad Audiences  
GRD 723 Writing Research for Academic Audiences  
GRD 727 Writing & Reviewing Research  
GRD 728 Professional Writing & Publishing  
GRD 729 Writing Your Journal Article in 12 Weeks  
Research Methods Electives: These are electives in a specific research methodology or study design areas of interest  
HPO 787 Empirical Methods for Health Research  
HPO 692 Health Equity and Inclusion in Public Health Programs and Policies  
NRM 773 Qualitative Research Methods  
NUR 752 Responsible Conduct of Research: A Cross-Cultural Perspective  
EPR 596 Introduction to Qualitative Methods in Educational Research  
CS 681 Simulation Models  
Statistical Methodology Electives: These are electives in a specific statistical or data analysis methodology  
HPO 721 Clinical Decision Making and Cost Effectiveness Analysis  
EPI 710 Analysis of Case Control Studies  
CS 610 Database Systems  
BST 623 General Linear Models  
BST 665 Survival Analysis  
EPR 792 Mixed Methods Approaches to Educational Research

**Courses**

**RHB 500. Introduction to Rehabilitation Science. 3 Hours.**  
Encapsulating science from the level of the cell and body structure to the person, family, community and society level, rehabilitation science serves as a foundation and the body of knowledge by which individuals may develop and evaluate current and emerging approaches to enhancing enablement and minimizing disability.

**RHB 575. Special Topics in Rehabilitation Science. 1-4 Hour.**  
Exploration of current topics in Rehabilitation Sciences.

**RHB 590. Quantitative Biomechanics of Injury and Rehabilitation. 3 Hours.**  

**RHB 740. Teaching Practicum. 1-3 Hour.**  
Individually designed, directed teaching experience in focus area appropriate to student's background, needs, and goals under guidance of faculty preceptor.  
**Prerequisites:** RHB 780 [Min Grade: C] and RHB 781 [Min Grade: C] and RHB 782 [Min Grade: C] and RHB 783 [Min Grade: C] and RHB 784 [Min Grade: C]

**RHB 746. Rehabilitation Science Journal Club. 1 Hour.**  
Student-led, facilitated discussion of current, impactful published research in rehabilitation science. Interaction with scientists and clinicians from multiple disciplines contributing to the rehabilitation science.

**RHB 775. Special Topics in Rehabilitation Sciences. 1-4 Hour.**  
Exploration of current issues in Rehabilitation Sciences.

**RHB 780. Principles of Rehabilitation Science: Movement Science. 3 Hours.**  
Interdisciplinary discussion of concepts, theories, principles, and research literature underlying the understanding of neural control, biomechanics, motor learning, and motor development and how purposeful and functional body movements are accomplished under a variety of health conditions and disease processes.

**RHB 781. Principles of Rehabilitation Science: Exercise Science. 3 Hours.**  
Interdisciplinary discussion of concepts, theories, principles, and research literature underlying the understanding of cardiac and pulmonary physiology, exercise physiology, and health behaviors and how important activities are accomplished under a variety of health conditions and disease processes.

**RHB 782. Principles of Rehabilitation Science: Occupation Science. 3 Hours.**  
Interdisciplinary discussion of concepts, theories, principles, and research literature underlying the understanding of occupation science and how work and play activities are accomplished under a variety of health conditions and disease processes.

**RHB 783. Research Design/Measurement in Rehab Sci. 3 Hours.**  
A detailed overview of research design and methodologies used in rehabilitation science, including quantitative and qualitative methods.

**RHB 784. Res Design/Measure Rehab Sc II. 3 Hours.**  
A detailed overview of research design and methodologies used in rehabilitation science, including quantitative and qualitative methods. A continuation of Research Design and Measurement in Rehabilitation Science I.

**RHB 785. Principles of Behavior Change in Rehabilitation Science. 3 Hours.**  
Scientific and theoretical principles underlying health behavior change in the context of rehabilitation science; health behavior from an ecological perspective; seminal behavior change theories; key elements required for design, implementation, and analysis of rigorous health behavior change research.

**RHB 789. Rehab Science Seminar. 1-2 Hour.**  
Varied discussion of rehabilitation science topics to help students explore research questions in preparation for their dissertation.

**RHB 798. Non Dissertation Research. 1-9 Hour.**  
Development of research proposal.

**RHB 799. Dissertation Research. 1-9 Hour.**  
Dissertation Research.  
**Prerequisites:** GAC Z