



SCHOOL OF HEALTH AND REHABILITATION SCIENCES DEPARTMENT OF SPORTS MEDICINE AND NUTRITION

PhD IN REHABILITATION SCIENCE

The Profession

The mission of the doctoral program in Rehabilitation Science is to advance the frontiers of knowledge underlying the practice of rehabilitation disciplines and professions through research, teaching, and professional development.

Graduates of this program will have a specific area of expertise in rehabilitation science as well as a core of interdisciplinary knowledge related to this specific area. They will become the researchers, scholars, teachers, thinkers, and planners in the demanding and changing field of rehabilitation science.

The Program

The PhD in Rehabilitation Science (Specialization in Sports Medicine) is structured to provide coursework in the major academic areas of sports medicine, physiology, biomechanics, research methodology, statistics, anatomy, and pathokinesiology. The student is expected to develop competency in core areas related to his/her research interest, and demonstrate competency in these areas during a Preliminary Examination. Students are provided extensive research experience in the Neuromuscular Research Laboratory housed within the University of Pittsburgh Medical Center, Center for Sports Medicine. The research experience in the Neuromuscular Research Laboratory focuses on issues central to clinical research in orthopedics and sports medicine. Research includes the use of electromyography, motion analysis, isokinetic dynamometry, and proprioceptive and balance assessment modalities for the purpose of defining and restoring function in the injured athlete and physically active individual. Weekly seminars sponsored by the Departments of Orthopaedic Surgery and Sports Medicine provide students with access to the most current research and clinical developments related to patient care.

Research assistantships within the Neuromuscular Research Laboratory are available to doctoral candidates. Assistantships include tuition remission, stipend, and benefits.

Why Choose the University of Pittsburgh?

The School of Health and Rehabilitation Sciences is an integral part of the world-class University of Pittsburgh Medical Center. In addition to the University's six schools of the health sciences, the medical center comprises a variety of hospitals and clinical facilities that afford students a wealth of opportunities for professional experiences. Also, the University of Pittsburgh is one of only a few universities that offer BS, MS and PhD programs in Sports Medicine. The program offers unique clinical and laboratory experiences in world-class facilities and offers unique interdisciplinary educational opportunities for doctoral students.

Admission Requirements:

Students are admitted into the program after successful completion of a Master's degree (some candidates with Bachelor's degree will be considered) with a minimum cumulative GPA of 3.0 (based on a 4.0 scale) and:

A curriculum vitae, including work history, formal education, continuing education, licensing and certification, professional organizations, honors and awards, publications, presentations, and grants

Transcripts from all colleges attended

Three to five letters of reference addressing the applicant's academic, professional, clinical (as appropriate), personal attributes, and potential for meaningful graduate study (at least one academic reference must be included).

At least one example of written work (class project, course assignment, publication for which candidate is first author, etc.)

Self-evaluation essay addressing your purpose for applying to the program, your ability to successfully complete the program, and your goals (short and long term).

An on-campus interview with program faculty is mandatory.

Application Information:

Students typically begin their studies in the fall term. Admission is rolling but applicants are encouraged to apply by January 15. An online application is available at <http://www.shrs.pitt.edu/contact/applications.html>. The application fee is \$50 (U.S.).

Class Size:

Typically ranges from 5–10 depending on available funding.

Job Market:

Earned doctorates in Rehabilitation Science and Sports Medicine provide outstanding opportunities for graduates seeking academic appointments in their selected field.

For more information contact:

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PhD IN REHABILITATION SCIENCE COURSE OFFERINGS

Rehabilitation Science/Sports Medicine Core	Credits
Pathokinesiology of Orthopaedic and Athletic Injuries	3
Seminar in Sports Medicine	3
Anatomical Basis of Sports Medicine	3
Laboratory Techniques in Sports Medicine I	3
Laboratory Techniques in Sports Medicine II	3
Directed Readings: Neuromuscular Aspects of Sport Injury	3
Research Seminar in Sports Medicine	3
Anatomy and Physiology I and II	6
Advanced Exercise Physiology	3
Disordered Eating in Athletes	3
Nutrition and Performance	3
Special Topics in Nutrition	3
Advanced Musculoskeletal Dissection	3
Biological Signals and Systems	3
Human Movement Biomechanics	3
Rehabilitation Biomechanics	3
Research Methodology (9 Credits Required)	
Introduction to Statistical Methods 1	3
Introduction to Statistical Methods 2	3
Applied Regression Analysis	3
Multivariate Statistics	3
Directed Readings: Epidemiology of Disability	3
Principles of Epidemiology	3
Epidemiological Methods 1	3
Epidemiological Methods 2	3
Research Methodology	3
Required Coursework	
Doctoral Seminar	6
Content in Psychosocial Aspects of Rehabilitation and Disability Example: Foundations of Rehabilitation (3 credits)	2
Transfer of Credits	
Graduate Level Credits Related to Rehabilitation Sciences	30
Dissertation Credits	18
Minimum Credits Required for Graduation	72

The University of Pittsburgh, as an educational institution and as an employer, values equality of opportunity, human dignity, and racial/ethnic and cultural diversity. Accordingly, the University prohibits and will not engage in discrimination or harassment on the basis of race, color, religion, national origin, ancestry, sex, age, marital status, familial status, sexual orientation, disability, or status as a disabled veteran or a veteran of the Vietnam era. Further, the University will continue to take affirmative steps to support and advance these values consistent with the University's mission. This policy applies to admissions, employment, access to, and treatment in University programs and activities. This is a commitment made by the University and is in accordance with federal, state, and/or local laws and regulations. For information on University equal opportunity programs and complaint/grievance procedures, please contact: William A. Savage, Assistant to the Chancellor and Director of Affirmative Action (and Title IX and 504 Coordinator), Office of Affirmative Action, 901 William Pitt Union, University of Pittsburgh, Pittsburgh, PA 15260

