Health and Human Physiology, Ph.D.

Requirements

The Doctor of Philosophy program in health and human physiology requires a minimum of 72 s.h. of graduate credit.

Doctoral students should have a strong background in the natural sciences and/or health promotion, and a working knowledge of statistics and research methodology. Students may acquire additional knowledge of statistics and research methodology after entering the program.

All Ph.D. students complete a common core of courses, elective courses, and 10 s.h. of independent research in addition to the 12 s.h. dissertation requirement. They must complete a dissertation in their specialization area.

Some courses in the program are offered by other departments. Faculty members from those departments frequently serve on comprehensive examination committees and on dissertation committees for the initial presentation of a candidate’s prospectus. They also participate in the final examination.

The Ph.D. with a major in health and human physiology requires the following course work.

Common Core

HHP:6000 Research arr.
HHP:7000 Practicum in College Teaching arr.

Advanced Statistics

Two enrollments, such as the following. Students should consult with their advisor.

BIOS:5120 Regression Modeling and ANOVA in the Health Sciences 3
STAT:6513 Intermediate Statistical Methods 4

Seminar Courses

Four enrollments chosen from the following.

HHP:6300 Motor Control Seminar 1
HHP:6400 Integrative Physiology Seminar 1
HHP:6500 Seminar in Health Promotion 1

Electives

Students are expected to obtain broad-based knowledge in their specialization area. This normally entails approximately 30 s.h. of course work. Students choose specialization electives with guidance from their advisor/mentor. Electives may include the following.

HHP:5000 Problems arr.
HHP:6050 Advanced Topics in Obesity 3
HHP:6130 Advanced Skeletal Muscle Physiology 1,3

Dissertation

Students working on a dissertation register for the following course.

HHP:6150 Advanced Clinical Exercise Physiology 1,3
HHP:6200 Advanced Metabolic Exercise Testing and Prescription 1,4
HHP:6410 Advanced Exercise Physiology 1,3
HHP:6460 Advanced Cardiovascular Physiology 1,3
HHP:6470 Advanced Physiology of Aging 1,3
HHP:6480 Advanced Human Pharmacology 1,3
HHP:6510 Advanced Energy Metabolism in Health & Disease 1,3
HHP:7300 Advanced Neural Control of Posture and Movement 1,3
ACB:5203 Gross Human Anatomy for Graduate Students 5
BIOC:3110 Biochemistry 3
BIOC:3120 Biochemistry and Molecular Biology I 3
BIOC:3130 Biochemistry and Molecular Biology II 3
EPID:4400 Epidemiology I: Principles 3
EPID:5241 Statistical Methods in Epidemiology 4
EPID:6350 Nutritional Epidemiology 2
EPID:6400 Epidemiology II: Advanced Methods 4
EPID:6600 Epidemiology of Chronic Diseases 3
FRRB:7000 Redox Biology and Medicine 4
MPB:5153 Graduate Physiology 4
NSCI:4353 Neurophysiology: Cells and Systems 3-4
NSCI:4753 Developmental Neurobiology 3
NSCI:7235 Neurobiology of Disease 3
OEH:4310 Occupational Ergonomics: Principles 3
OEH:6310 Occupational Ergonomics: Applications 3
PSY:5210 Fundamentals of Behavioral Neuroscience 3-4
PTRS:5210 Kinesiology and Pathomechanics 4
PTRS:6224 Activity-Based Neural and Musculoskeletal Plasticity in Health Care 4
PTRS:7812 Biomedical Instrumentation and Measurement 3
PTRS:7875 Analysis of Activity-Based Neural and Musculoskeletal Plasticity 3
PTRS:7885 Biomechanical Analysis in Rehabilitation 3
Admission

Admission to the graduate program is based on grade-point average and score on the Graduate Record Examination (GRE) General Test. Applicants to the Ph.D. program must have a g.p.a. of at least 3.00 on undergraduate work and previous graduate work.

Applicants must meet the admission requirements of the Graduate College; see the Manual of Rules and Regulations of the Graduate College.

Application deadline is February 1 for admission the following fall.

Career Advancement

The Pomerantz Career Center offers multiple resources to help students find internships and jobs.