Applied Physiology Ph.D.
Our Ph.D. program in Applied Physiology provides advanced training to prepare students for research-based careers. Areas of in-depth study are driven by faculty research and encompass cardiovascular physiology, exercise physiology, musculoskeletal physiology, and neurophysiology. The programmatic emphasis is on the regulation, adaptation, and integration of mechanisms across all levels of biological organization from molecules to organ systems.

Our students have access to state-of-the-art labs in the Department of Kinesiology and Applied Physiology, as well as other labs and facilities in affiliated programs at the University of Delaware. They gain valuable research experience through involvement in federally funded research projects and interaction with a variety of interdisciplinary research groups.

Our researchers are continuously generating and disseminating new knowledge on health, aging, chronic disease, and injury prevention. Examples of current faculty research include the following:

- Blood pressure regulation and autonomic nervous system function
- Heart and vascular function in health and disease
• Mathematical modeling of the cardiovascular system
• Musculoskeletal growth and development
• Musculoskeletal pathophysiology
• Neuromuscular mechanisms and their changes in health and disease

Along with in-depth, laboratory-based immersion, we provide our students with high-quality classroom-based instruction through a core graduate curriculum, electives, and seminars.

The Ph.D. in Applied Physiology requires a minimum of 46 credits including 9 credits of dissertation. The program is designed to be completed in four years. The 46 required credits are specified in the student’s plan of study and normally include the following requirements:

• Physiology (6 credits)
• Practice of Science (3 credits)
• Research (12 credits)
• Biostatistics (3 credits)
• Seminar (4 credits)
• Elective Courses (9 credits)
For more information about program prerequisites, requirements, and application procedures, please contact:

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