

PH.D. IN HUMAN BIOENERGETICS

The Ph.D. in Human Bioenergetics covers all aspects of Health and Exercise Science. While it primarily prepares students for academic and research careers, it is also a pathway to careers outside academia (e.g. public health, research foundations, footwear/equipment, pharmaceutical, or nutrition industries) that require advanced training in research. The program trains professionals in basic and applied research centered around preventing age-related decline in human health and function, understanding the pathophysiology of disease and disability, as well as designing and testing novel countermeasures and maximizing functional performance in first responders, soldiers, and athletes.

Learning Objectives

1. Refine and demonstrate practical knowledge and skills within the research laboratory and the classroom (leadership, administrative, teaching/communication, and professional attitude) in exercise science through laboratory and teaching experiences.
2. Demonstrate the ability to disseminate knowledge effectively through writing and verbal communication. Writing skills will focus on abilities to synthesize, integrate, and apply health and exercise science disciplinary knowledge at a professional level.
3. Demonstrate critical thinking and the ability to apply knowledge related to the key concepts, issues, and tools fundamental to health and exercise science.
4. Demonstrate the ability to design and implement novel scientific experiments.

[Learn more about the Ph.D. in Human Bioenergetics on the Department of Health and Exercise Science website.](#)