Learning Objectives

**Human Biology** *(Applied Physiology, Biomedical Science, Nutrition & Metabolism, Human Biology, & Human Performance BS & BA degree tracks):*

- To develop a deeper comprehension of the central and cross-disciplinary concepts of human biology, which include, but are not limited to bioenergetics, the interrelationship of human form and function, physiological homeostasis, and biomechanics.
- To understand and apply the scientific method, including forming hypotheses, designing experiments to test hypotheses, and collecting, analyzing, interpreting, and reporting data.
- To demonstrate proficiency in modern methodologies pertinent to research in biological and physical sciences.
- To develop the ability to think critically, analyze, synthesize, and use information to solve problems.

**Human Evolutionary Biology** *(BS & BA degree tracks):*

- To obtain a core knowledge base in human evolution including a mastery of theoretical and empirical approaches in evolutionary biology, biological anthropology, paleontology, functional morphology, comparative primate behavioral ecology, population genetics, and modern human variation and adaptation.
- To demonstrate understanding of ecological and evolutionary processes including the role of genetic variation, heredity, and natural selection as well as the implications
these processes have for the origins and evolution of modern humans and their biology.

- To understand and apply the scientific method and develop critical thinking skills from an evolutionary framework along with the ability to apply knowledge to new information and data, as well as the capacity to effectively communicate the principles of evolution and its application to human biology.

**Ethics & Society (all tracks)**

- To place biological knowledge into an ethical context, especially how biology can contribute to the resolution of ethical, social, and environmental issues.
- To provide sufficient depth of knowledge and skill for entry-level employment in a wide variety of fields, or for graduate study in the health professions or other biology-related disciplines.