

MAJOR IN BIOMEDICAL SCIENCES, ANATOMY AND PHYSIOLOGY CONCENTRATION

This program prepares students for a wide variety of opportunities which have a basis in cellular and molecular biology, human/animal anatomy and physiology. In addition to enrolling in required courses, students will have opportunities to engage in elective courses and laboratory research in specialty areas of endocrinology, pharmacology, pathophysiology, neurophysiology, reproductive physiology, and cardiopulmonary physiology. In this process, students are able to tailor their educational experiences to specific career objectives. The curriculum will prepare graduates to pursue further studies in professional schools for medicine, veterinary medicine, pharmacy, dentistry, and optometry, as well as other programs such as nursing, physician assistant and physical therapy. The Anatomy and Physiology concentration will also prepare students for graduate studies in animal and human health sciences as well as for employment in a variety of innovative and developing fields in biotechnology.

The basic science curriculum meets many requirements for entrance into professional schools. Experiential learning opportunities are encouraged and could include participating in laboratory research, teaching/tutoring in selected courses, volunteer experiences and leadership positions within student club(s), study abroad, internships, and honors curriculum. These opportunities are encouraged with the student's interests and career goals as the focus.

Learning Objectives

1. Obtain a solid background in anatomy and physiology and be able to integrate knowledge from the molecular to the systemic level.
2. Demonstrate strong writing and oral communication skills.
3. Develop scientific hypotheses and experiments to test them.
4. Work effectively in groups.
5. Demonstrate effective organization, leadership, and laboratory skills.
6. Think critically and logically.