

CERTIFICATE IN ANATOMY AND PHYSIOLOGY

The certificate in Anatomy and Physiology is an option within the Bachelor of Science degree in Biological Sciences. The program is designed for undergraduate and post-baccalaureate students that want to better prepare for careers in: advanced degrees in anatomy and physiology, professional degrees in medicine, dentistry or veterinary medicine or employment in industry.

The Department of Biological Sciences will grant admission to the Certificate in Anatomy and Physiology program. Due to the research-intensive aspects of this program, a limited number of competitive candidates will be selected for participation in the certificate. Minimum requirements for admission are:

- Students must have a minimum grade point average of 2.7 (on a 4.0 scale) in the prerequisite courses.
- Submission of two academic letters of recommendation.
- Interview with the members of the division of Anatomy and Physiology.

To receive the Certificate in Anatomy and Physiology, students must complete 26-29 semester hours and maintain a grade point average of 3.0 or better in their required and elective courses in the certificate program. A total of 17 semester hours will be from required courses, including advanced courses in anatomy and physiology that have both a lecture and laboratory component. The remaining 9-12 semester hours will be selected by each student from a list of elective courses, which allows a student to tailor a portion of their course work to individual interest within the areas of anatomy and physiology. Student must also complete the required prerequisites to the upper-division courses, and cannot take a course on a credit/no credit basis.

COURSE	TITLE	S.H.
BIOL 5813 & 5813L	Vertebrate Histology and Vertebrate Histology Laboratory	4
BIOL 4839	Selected Topics in Physiology	1
BIOL 4898	Research in Physiology ¹	3
BIOL 4834 & 4834L	Advanced Physiology: Integrative Mechanisms and Advanced Physiology: Integrative Mechanisms Laboratory	4
CHEM 3785	Biochemistry 1	3
Elective Certificate Courses		
Pick three courses from the following:		
BIOL 3775 & 3775L	Comparative Vertebrate Anatomy and Comparative Vertebrate Anatomy Laboratory	3
BIOL 4822	Principles of Pharmacology	3
BIOL 4830 & 4830L	Functional Neuroanatomy and Functional Neuroanatomy Laboratory	4
BIOL 5832	Principles of Neurobiology	4
BIOL 5833	Mammalian Endocrinology	3
BIOL 4835 & 4835L	Advanced Physiology: Regulatory Mechanisms and Advanced Physiology: Regulatory Mechanisms Laboratory	4
BIOL 4836 & 4836L	Cell Biology: Molecular Mechanisms and Cell Biology: Molecular Mechanisms Laboratory	3
BIOL 5844	Physiology of Reproduction	3
BIOL 5868 & 5868L	Gross Anatomy 1 and Gross Anatomy 1 Laboratory	4
BIOL 5869 & 5869L	Gross Anatomy 2 and Gross Anatomy 2 Laboratory	4

¹ Students must enroll for BIOL 4898 for two consecutive semesters.