

BIOL-UA 23 Comparative Vertebrate Anatomy

Instructor:

Nataliya Galifianakis

Course Description:

The course will focus on the origin, development, and evolution of the vertebrates and their organ systems. The function of structures, and how both structure and function evolved as adaptations to different environments and lifestyles will be discussed. There will be primary research papers assigned for reading and discussed during the semester

Pre-requisite:

Molecular and Cell Biology I (BIOL-UA 21)

Textbook and Required Materials:

Vertebrates: Comparative Anatomy, Function, Evolution” by Kenneth Kardong

Grading:

Lecture Quizzes	5%
Lab Quizzes	5%
Exam 1	15%
Exam 2	15%
Exam 3	15%
Lab Practical 1	15%
Lab Practical 2	15%
Project	15%

Topics:

Chordates
Vertebrates
Embryology
Integument
Skeletal System
Muscles and Locomotion
Digestive System
Respiration
Circulation
Renal System
Reproduction System
Endocrine System
Nervous System
Sensory Organs