

BIOL-UA 25 Principles of Animal Physiology

Instructor:

Nataliya Galifianakis

Course Description:

In the course of a semester we will discuss cellular and molecular mechanisms and functions of several systems of the vertebrate organism including Nervous, Endocrine and Immune systems, Muscles, Cardiovascular system and Blood, Respiratory, Renal and Digestive systems. There will be primary research papers assigned for reading that will be discussed in class; quizzes at the beginning of each lecture that will test the material of the previous lecture, and problem-solving assignments that will require independent research of topics related to the course.

Pre-requisite:

Molecular and Cell Biology 22 (BIOL-UA 22).

Textbook and Required Materials:

Human Physiology: An integrated Approach” 8th Edition by Dee Unglaub Silverthorn

Grading:

Midterm#1	25%
Midterm#2	25%
Final	25%
Assignments	20%
Quizzes	5%

Topics:

Central Nervous System
Sensory Physiology
Peripheral Nervous System Endocrine System
Immune System
Muscle Physiology
Movement
Cardiovascular System
Blood
Respiration
Renal System
Digestive System
Metabolism