

Department: Science

Course Name: Anatomy and Physiology

Course Description:

This course is a two-semester introduction to human anatomy and physiology which focuses on the structure and function of the human body. The course follows a systemic approach to the study of the human body and includes examinations of cell, tissue, and organ structure and function. The pace and depth are suitable for those students whose scientific interest and background is nominal, but who wish to pursue greater knowledge in the area. Laboratory experiments and procedures, including dissection, are also a part of this course. Pre-requisites include biology and chemistry.

Content:

Introduction to systems
Chemistry of a cell
Cell structure, tissues
Integumentary system
Skeletal system
Muscular system
Nervous system
Digestive System
Respiratory System
Cardiovascular System
Urinary System
Reproductive System
Endocrine System

Skills:

Utilize a variety of lab techniques
Construction of models to understand concepts
Organize and analyze data
Improve laboratory techniques including dissection
Introduction to electrophysiological recordings of neuronal, heart, brain and muscle activity.

Text and Materials:

Sylvia S. Mader, Human Biology Lab Manual, Mc Graw Hill, 12th ed., 2012, iPad version (provided by teacher)

Methods of Instruction:

Lecture
Videos
Class reviews
Class discussions
Laboratories
Student presentations
Model Construction

Methods of Evaluation:

Tests- traditional and online assessments

Quizzes- traditional and online assessments

Projects

Lab work

Homework

Presentations

Models

