

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.

Methods of Instruction:

Lecture

Videos

Class reviews

Class discussions

Laboratories

Student presentations

Model Construction

Methods of Evaluation:

Tests- traditional and online assessments

Projects and Models

Lab work

Homework

Presentations