BIOL& 242L: HUMAN ANATOMY & PHYSIOLOGY II

Cardiovascular system; lymphatic system; immunology; respiratory system; digestive system; metabolism; urinary system; endocrine system; reproductive system; and genetics. This class will include students from multiple sections. (E)

Course Student Learning Outcomes

1. Explain and give examples of the basic themes and concepts of the cells, including basic cell chemistry, properties of water and pH, basic organic chemistry, and properties of organic macromolecules, cell structure and function, membrane structure and function, metabolism and enzyme function, respiration and fermentation, photosynthesis, cell communication, and mitosis.
2. Use and define descriptive anatomical and directional terminology such as anatomical position, directional terms, sections, body cavities and regions, and body membranes.
3. List the general functions of, describe the gross and microscopic anatomy of, and explain the physiological functions of the following systems of the human body: cardiovascular (including blood), lymphatic, immune, respiratory, digestive, urinary, endocrine, and reproductive.
4. Explain and give examples of the principles of metabolism, fluid, electrolyte, and acid-base balance, pregnancy and development, and genetics.
5. Explain and give examples of select pathologies of each system and drugs used to treat them.
6. Demonstrate ability to process information and experiences in the form of laboratory presentations to convey findings of internet and/or text research using appropriate language.
7. Describe connections of the covered concepts of biology to their local environments, possible future careers, and daily lives.

Credits: 5
Prerequisites: Eligibility for both ENGL& 101 and MATH 090/091; 2.0 or higher in BIOL& 241L.
Program: Biology