



Biology 0239 – Human Anatomy and Physiology II (Summer II – 2020)

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Virtual office hours by appointment M-F (9am-12noon)

Welcome to Biol 0239 – Human Anatomy and Physiology II. This course is a continuation of Biol 0237 and is designed to help students build a comprehensive picture of the most important aspects of the body from the chemical level through the integration of organ systems into a healthy living human being. This semester we will primarily study the respiratory, circulatory, digestive, endocrine, urinary, and reproductive systems. Both structure and physiological function are emphasized as well as regulatory mechanisms and interactions between systems. This course strives to establish a firm foundation of knowledge and study skills for students going on to more specialized course work in human biology, including courses in Health Sciences, Movement Science and Nursing. Although some clinically significant discussions are presented in this course, future advanced courses focus on how movement or disease processes represent deviations from the norm presented here. 4 Credits.

Primary Learning Objectives

1. The major structures of the cardiovascular, respiratory, digestive, urinary, and reproductive systems.
2. Cellular mechanisms of hormone action and the maintenance of homeostasis.
3. Blood and its physiological functions.
4. The cardiac cycle and the electrical activity of the heart.
5. Respiration, and gas transport.
6. Mechanical and chemical digestive processes.
7. Metabolism and relation to body energy balance.
8. Nephron function and concentrated urine formation.
9. Male and female reproductive systems

Required Text & Materials

1. Fundamentals of Anatomy & Physiology 11th Edition, Martini et al.
2. Masteringaandp.com, access key. (Highly recommended)
3. Visible Body online courseware.
4. Webcam, suitable computer and internet (see technical specifications) and, a smart device (phone or tablet)

Class Structure

1. Primarily asynchronous online instruction
2. Synchronous discussions “highly recommended”

Technical Specifications

1. <https://support.visiblebody.com/hc/en-us/articles/360000992994-System-Requirements-for-Courseware>

Disclaimer

Please note that this is a general course description and the official course syllabus will be available to you once the course begins. Some things in the final course syllabus may be different. However, the textbook is accurate.