



**Tutor:** Layla Steensma

**Class Name:** Anatomy & Physiology

**Grade Levels:** Grades 10-12

**Class Description:** This course focuses on the anatomy and physiology of the human body and all of its organ systems. Through the 16 modules we will cover the organizational overview of the human body and homeostasis, as well as a general review of concepts such as cell structure, protein synthesis, and cellular mitosis. Subsequent modules study histology (study of tissues), integumentary and skeletal systems, skeletal system histology and movement, muscular system histology and physiology, skeletal muscle system, nervous system, central nervous system, peripheral nervous system, endocrine system, cardiovascular system, lymphatic system, digestive system, respiratory system, urinary system and the reproductive system. This is an AP level Anatomy and/or Advanced Biology class. Therefore, students are expected to be independent and come prepared to class.

Student can expect 5 hours of homework per week throughout the course, in addition to test taking and weekly co-op meeting. Microscope labs, histology, and dissections are done together, and all specimens and lab equipment are included in the materials fee.

**Prerequisites:** Biology

**Textbook/Author/Publisher:**

Exploring Creation with Advanced Biology 2nd edition

Author: Dr. Jay L. Wile Publisher: Apologia Educational Ministries ISBN: 9781935495727

Biology Solutions Manual 2nd Edition

**Supplies Required:** Textbook, 3 Ring Binder, (Student Notebook recommended)

**Materials/Lab Fee:** \$125/yr

**Step Up:** NO