

Course Syllabus

Description:

Explore the organization of the human body and how it works. Acquire knowledge necessary to understand what the body is doing and how you can help the body cope with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body. This version of Anatomy and Physiology is fully compatible with mobile devices. Students can access all course materials, interactivities, and assessments from their tablet or smart phone.

Estimated Completion Time:2 segments/32-36 weeks

Major Topics and Concepts:

Segment I:

Module 1 Protection and Support

- 01.00 Module One Protection and Support Pretest
- 01.01 Introduction to Anatomy and Physiology
- 01.02 Understanding Anatomy and Physiology
- 01.03 Tissues
- 01.04 Skin-The Largest Organ
- 01.05 The Human Skeleton
- 01.05 Honors–Bone Markings
- 01.06 Bone Tissue
- 01.07 Module One Discussion-Based Assessment and Exam
- 01.08 Module One Protection and Support Collaboration

Module 2 Movement

- 02.00 Module Two Movement Pretest
- 02.01 Axial and Appendicular Muscles
- 02.02 Skeletal Muscle
- 02.02 Honors–Cellular Energy
- 02.03 Muscle Contraction
- 02.03 Honors–Physiology of Muscle
- 02.04 Module Two Discussion-Based Assessment and Exam
- 02.05 Module Two Movement Collaboration

Module 3 Communication and Coordination

- 03.00 Module Three Communication and Coordination Pretest
- 03.01 Nervous System
- 03.02 The Spinal Cord
- 03.03 The Brain
- 03.04 Sympathetic and Parasympathetic Nervous Systems
- 03.05 Nerve Conduction
- 03.06 Senses
- 03.07 Endocrine System
- 03.07 Honors–Hormones
- 03.08 Module Three Discussion Based Assessment and Exam

- 03.08 Module Three Discussion-Based Assessment and Exam
- 03.09 Module Three Communication and Coordination Collaboration
- 03.10 Segment One Exam

Segment II

Module 4 Transport

- 04.00 Module Four Transport Pretest
- 04.01 Cardiovascular System
- 04.01 Honors—Blood Vessels and Electrocardiogram
- 04.02 Components of Blood
- 04.03 Hemostasis, Typing, and Transfusion
- 04.04 Module Four Discussion-Based Assessment and Exam
- 04.05 Module Four Transport Collaboration

Module 5 Respiration and Digestion

- 05.00 Module Five Respiration and Digestion Pretest
- 05.01 The Respiratory System
- 05.01 Honors—The Tissues of the Respiratory System
- 05.02 The Digestive System
- 05.02 Honors—The Tissues of the Digestive System
- 05.03 Molecules of Life
- 05.04 Enzymes
- 05.05 Module Five Discussion-Based Assessment and Exam
- 05.06 Module Five Digestion and Respiration Collaboration

Module 6 Regulation and Reproduction

- 06.00 Module Six Regulation and Reproduction Pretest
- 06.01 Excretory System
- 06.01 Honors—Excretory Structures
- 06.02 Immune System
- 06.03 Lymph System
- 06.04 Reproductive System
- 06.04 Honors—Fertilization to Birth
- 06.05 Fetal Circulation
- 06.06 Module Six Discussion-Based Assessment and Exam
- 06.07 Module Six Regulation and Reproduction Collaboration
- 06.08 Segment Two Exam

Course Assessment and Participation Requirements:

To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, “any pace” still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple choice questions, projects, discussion-based assessments, and discussions. Students are expected to maintain regular contact with teachers; the minimum requirement is monthly. When teachers, students, and parents work together, students are successful.

