2027 Anatomy & Physiology - Introduction and Learning Objectives

How to Use the Anatomy & Physiology Resources

Welcome to Anatomy & Physiology!

This set of resources is intended to provide you with a starting point for your studies, as well as provide a broad overview of the material listed in the rules.

The list of general resources

Test your knowledge by doing practice questions throughout the season. Make sure to practice with your partner under similar conditions as tournaments to know your strengths/weaknesses. After completing each practice test, make a list of topics to continue reviewing. Scioly.org has test exchanges with publicly-released tournament exams and prior year exams.

General Learning Objectives

This event is intended to test your clinical reasoning and data analysis skills beyond memorization of facts. While studying, connect form with function and note how physiological outcomes have chemical and physical backgrounds. Understanding why processes occur will help you answer conceptual questions and remember key concepts better.

General Resources

- Textbook Recommendations
    - OpenStax Anatomy & Physiology
    - Anatomy & Physiology: The Unity of Form and Function (Saladin)
    - Costanzo Physiology
    - Fundamentals of Anatomy & Physiology (Batholomew, Martini, Nath)
    - Essentials of Human Anatomy & Physiology (Marieb)
    - UT Health Electronic Textbook for Neuroscience
        - Section 1 and 3 - Neuroscience
        - Section 2 - Sensory Organs
        - Section 4 - Hormones and Homeostasis
- Histology
    - Histology Overview
        - https://digitalhistology.org/ (Virginia Commonwealth University)
    - Histology Guides
        - https://www.histologyguide.com/
        - https://medcell.org/histology/histology.php
        - https://vmicro.iusm.iu.edu/hs_vm/toc.htm
    - Libre Pathology (pathology wiki) - collection of histology images
        - https://librepathology.org/wiki/Main_Page
    - Histology Quiz tools

        - https://medpics.ucsd.edu/index.cfm
- Imaging
    - Radiology atlas
        - https://radiopaedia.org/?lang=us

Digestive System

- **Khan Academy:**
    - https://www.khanacademy.org/science/telengana-class-11-zoology/xa98dabecfd450e4b:periplaneta-americana/xa98dabecfd450e4b:digestive-system/v/digestive-system
- **Ninja Nerd:**
    - https://www.youtube.com/watch?v=p-hA5g9zGig&list=PLTF9h-T1TcJiSHWyICtx_i1AGavZ7ciX2

Respiratory System

- **Ninja Nerd:**
    - https://www.youtube.com/watch?v=P7Fkg7_yXL0&list=PLTF9h-T1TcJhi49KL8F4nZWtAYJXLInAz
- **American Lung Association:**
    - https://www.lung.org/lung-health-diseases

Immune System

- **Armando Hasudungan:**
    - https://www.youtube.com/watch?v=LSYED-7riNY
- **Osmosis:**
    - https://www.youtube.com/watch?v=gR84OJ_EGxk
- **Merck Manual:**
    - https://www.merckmanuals.com/professional/immunology-allergic-disorders