

**Medical Anatomy & Physiology 2021/2022**

# Contact Information

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# Course Description

Medical Anatomy and Physiology (MAP) considers the interrelationships between structure of the human body, the function of these structures, and the biological processes that are essential for proper function of the human body. This course will provide students with an in-depth instruction of anatomy, physiology, medical terminology, diseases and disorders, medical ethics, and first aid. Students will participate in a variety of lab activities and dissections, field trips, class discussions, projects, and readings to provide a hands-on, student-centered, active learning experience. This class is designed to prepare students for advanced health science courses and health technology programs.

# Learning Objectives

* Recognize and discuss human anatomical structures and their corresponding functions.
* Understand physiological processes and their importance in maintaining a healthy organism.
* Apply understanding of anatomical structures and physiological processes to notable diseases and disorders.
* Develop connections between anatomical structures, physiological processes, and the maintenance of homeostasis.
* Integrate appropriate terminology and apply rigorous scientific processes to evaluate and discuss real-world applications of medical issues.
* Demonstrate effective laboratory skills in evaluating anatomical structures and physiological processes.

# Materials

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| --- | --- |
| * Lab journal (provided by instructor) * Readings (provided by instructor) | * Index cards * Pen/pencil & colored pencils * Lab appropriate clothing (on lab days) |

# Course Work & Evaluations

Medical Anatomy & Physiology will consist of a variety of activities. Success in the class will be determined by successful participation and completion of the following:

* Labs & activities (including dissections)
* Maintenance of lab journal
* Readings
* Class discussions & guest speakers
* Quizzes, tests, and lab practicals
* Projects
* Field trips

# Classroom Expectations

All students are expected to participate fully, to the best of their ability, in all class activities. This includes class discussions, lab experiments and dissections, field trips, projects, maintenance of a lab journal, and other class assignments. Every class member is expected to treat every class member, course materials and specimens, and class guests with the utmost respect. Honesty and integrity is expected of everyone; failure to maintain an honest work ethic will result in disciplinary action.

# Scope and Sequence

|  |  |  |
| --- | --- | --- |
| **Introduction to the Human Body** |  | Anatomical terminology |
|  |  | Homeostasis & Biochemistry |
|  |  | Cellular organization |
|  |  | Tissue organization |
|  |  |  |
| **Integumentary System** |  | Structure, function, development, & aging |
|  |  |  |
| **Skeletal System** |  | Bone structure, function, development, & aging |
|  |  | Axial skeleton |
|  |  | Appendicular skeleton |
|  |  | Joints |
| **Muscular System** |  | Muscular tissue structure |
|  |  | Muscular system movement |
| **Nervous System** |  | Nervous tissue & signaling |
|  |  | Spinal cord & spinal nerves |
|  |  | Brain & cranial nerves |
|  |  | Autonomic nervous system |
|  |  | Sensory, motor, & integrative systems |
|  |  | Senses |
| **Endocrine System** |  | Endocrine structure, function, development, & aging |
| **Reproductive System** |  | Male & female reproductive structure |
|  |  | Human reproduction |
|  |  | Development & inheritance |
|  |  |  |
| **Cardiovascular System** |  | Blood structure & function |
|  |  | Heart structure & function |
|  |  | Blood vessels & circulation |
| **Respiratory System** |  | Respiratory structure, function, development, & aging |
| **Lymphatic System** |  | Lymphatic structure & development |
|  |  | Immunity |
| **Urinary System** |  | Urinary structure, function, development, & aging |
|  |  | Fluid, electrolyte, & acid-base homeostasis |
|  |  |  |
| **Digestive System** |  | Digestive structure, function, development, & aging |
|  |  | Metabolism & nutrition |

**STUDENTS & PARENTS/GUARDIANS: PLEASE ACKNOWLEDGE THAT YOU HAVE REVIEWED THIS COURSE DICSCLOSURE AND PROVIDE ADDITIONAL INFORMATION BY COMPLETING THE ACKNOWLEDGEMENT FORM ON CANVAS** (*“course disclosure form” assignment*)