MARIAN UNIVERSITY
Indianapolis

School: Mathematics and Sciences

Course Description

A systematic approach to the study of the structure of the human body through both lecture and an interactive online virtual laboratory. The course begins with the structure of the cell and continues with the anatomical study of all systems of the human body.

Semester and Credit Hours

Credit Hours: 5

Textbook

Refer to the MAP website (www.marian.edu/MAP) for specific textbook requirements.

Course Objectives

At the completion of the course, the student will be able to:

- Combine the individual components of a medical term to determine the meaning of the word
- Become familiar with cellular biochemistry
- Describe the structure and function of the major macromolecules needed for metabolic activities
- Understand the relationship between cells, their organelles, and their function

- Identify (by light microscopy or by description) specific cellular types or cellular organelles and their functions
- Develop an understanding of different tissue types and their intimate relationships
- Relate the structure of different tissue types to the human system in which they are located
- Identify tissues by description, video, or light microscopy
- Identify and understand the interplay of the components of the skeletal system
- Describe the associated structures of a given bone
- Identify the microscopic organization of bone tissue either by description or by microscopy
- Identify bones either diagrammatically or as preserved specimens
- Recognize muscle anatomy
- Identify the microscopic components of muscle cells
- Identify the gross anatomical components of muscle cells
- Know the location and function of the major muscles of the body
- Identify diagrammatically or on 3-D models the major muscles of the human body
- Relate a muscle's position to its functionality
- Know the anatomy of all systems in the body
- Identify the anatomy of a system by either description, diagrammatically, or on 3-D models

Topics

Cellular Anatomy, Cell Division, Tissues, Skin, Bone, Articulations, Muscle, Nervous System, Blood, Vessels, Heart, Respiratory System, Digestive System, Urinary System, and Reproductive Systems.

Lecture

Please be advised that all dates and times in Canvas are Eastern Time (ET) by default. Unless you as the student have changed your personal settings due dates and times will appear as ET. Please plan accordingly.

The lecture portion of the course is self-directed through the posted readings and outlines in each module. Each module also contains a discussion question, a set of review terms and a set of review questions. These are not graded but put into the course to stimulate conversation and for self-assessment of the material covered in each module, respectively.

Lecture exams consist of 50 multiple-choice questions worth 2 points each for a total of 100 points for each exam. You will be given a 24 hour window in which to start your exam. The twenty-four hour window is from 12:00 a.m. EST of the day the exam is scheduled until 11:59 p.m. EST the same day. Once started, you will have 60 minutes to complete the exam. If time expires before you complete the exam, your exam will automatically be submitted and you will earn credit for only those questions that have been completed. Also if you start the exam with less than 60 minutes remaining in the 24 hour testing window, the exam will still timeout at 11:59 p.m. EST. So make sure you start before 10:59 p.m. EST to ensure you have the full 60 minutes to test.

Laboratory

The lab portion of each module is covered through demonstration videos and laboratory checklists. There are interactive lab review activities in each module. These are not graded but given for your benefit of reviewing each module's lab material.

Lab exams will consist of 50 multiple-choice labeling questions. Each multiple-choice question on the lab exams will be worth 1 point each. You will be given a 24 hour window in which to start your exam. The twenty four hour window is from 12:00 a.m. EST of the day the exam is scheduled until 11:59 p.m. EST the same day. Once started, you will have 60 minutes to complete the exam. If time expires before you complete the exam, your exam will automatically be submitted and you will earn credit for only those questions that have been completed. Also if you start the exam with less than 60 minutes remaining in the 24 hour testing window the exam will still timeout at 11:59 a.m. EST. So make sure you start before 10:59 p.m. EST to ensure you have the full 60 minutes to test.

Policy Statements

Academic Misconduct:

The University's guidelines for penalties and procedures will be strictly adhered to. If you are not familiar with the guidelines, please refer to the University’s Code of Students Rights and Responsibilities.

Students with disabilities:

Students with disabilities who have proper documentation must contact the Director of Academic Support Services in the Counseling and Consultation Services office to set up a documentation

review. If after the review, accommodations are deemed appropriate, an accommodation plan will be developed. As per the ADA (Americans with Disabilities Act) no accommodations can be provided until this process is complete. Contact Marj Batic, Director of Academic Support Services (mbatic@marian.edu; 317.955.6150; or stop by the office in Clare Hall). Note: Students who may require assistance in emergency evacuations should consult with the instructor as to the most appropriate procedure to follow. If there are questions regarding such a procedure, contact Ruth Rodgers, Vice President, Student Success and Engagement/Dean of Students @ rrodgers@marian.edu or the Director of Academic Support Services for additional information.

Peer Tutoring

Marian University's Peer Tutor Center is a free resource to students. Located in Clare Hall-119, peer tutoring offers you the opportunity to discuss difficult concepts and theories while learning study strategies to aid in the understanding of course material. The Peer Tutoring Center offers individual appointments as well as walk-in consultations. To schedule an individual appointment, please visit www.tutormatchingservice.com/marian (Links to an external site.). A schedule of walk-in tutoring times is available on-line at http://marian.edu/campus-life/academic-success-and-engagement/tutoring (Links to an external site.)

Grading Scale

Evaluation Method:

• Lecture Exam 1	100	Chapters 1, 2, 4, & 5
• Lecture Exam 2	100	Chapters 9, 10, 14, & 15
• Lecture Exam 3	100	Chapters 16, 18, 21/ 23, & 22
• Lecture Exam 4	100	Chapters 25, 26, 20, & 27
• Lecture Exam 5	100	Chapters 28 & 3
• Lab Exam 1	50	Cells, Tissues, Axial & Appendicular Skeleton
• Lab Exam 2	50	Muscles: Head, Neck, Torso, Upper & Lower Extremities
• Lab Exam 3	50	Brain, Spinal cord, Eye, & Ear
• Lab Exam 4	50	Heart, Arteries, Veins, & Respiratory system
• Lab Exam 5	50	Digestive, Urinary, Male & Female Reproductive systems
TOTAL	750	

GRADE	PERCENTAGE
A	94-100%
A-	90-93.9%
B+	87-89.9%
B	83-86.9%
B-	80-82.9%
*C+	77-79.9%
C	73-76.9%
C-	70-72.9%
D+	67-69.9%
D	60-66.9%
F	0-59.9%