

MARIAN UNIVERSITY

Indianapolis

BIO 225 Human Anatomy 5 Credits

Semester and Year:

Email: Contact via Canvas email

Required Textbook(s):

Principles Human Anatomy; Gerard Tortora and Mark Nielsen. 15th Edition. Wiley

Loose-leaf book w/access code: ISBN 9781119662839

OR

Standalone access code: ISBN 9781119705642

****Both options come with access to the e-text****

Students are required to purchase the item listed above prior to the start of the course. Look into all of your options - new, used, rental or e-books. If you choose a rental option, be sure to understand the policies and the due dates for the returns. While you have the option to obtain your course materials from any source, ordering from the MU Book Store can be a convenient option. Please note that you can also charge bookstore purchases to your student account or use your MU financial aid if applicable. Visit www.bkstr.com/marianustore/home.

Additional Resources:

The Mother Teresa Hacklemeier Memorial Library at Marian University provides various databases <http://www.marian.edu/library/Pages/default.aspx> ([Links to an external site.](#)) ([Links to an external site.](#))

- **Marian University requires all work be completed on a laptop or PC; this includes all exams and quizzes.**

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 an introduction to anatomy and continues with the anatomical study of all systems of the human body.

Upon successful completion of this course, students will be able to:

Student Learning Objectives

Course Learning Objectives

Methods of Assessment

| | |
|---|--|
| Describe the biochemical construct of the cell membrane | AP 1, Chapter Assessment 1 |
| Analyze the relationship between cells, their organelles, and their function | AP 2, Chapter Assessment 2 |
| Identify (by light micrograph or by description) specific cellular types or cellular organelles and their functions | AP 2, Chapter Assessment 2 |
| Categorize different tissue types and their intimate relationships | AP 3, Chapter Assessment 3 |
| Relate the structure of different tissue types to the human system in which they are located | Discussion: Module 1, AP 3, Chapter Assessment 3 |
| Identify tissues by description or light micrograph | AP 3, Chapter Assessment 3 |
| Compare the anatomical and functional similarities/differences of the integumentary layers | AP 5, Chapter Assessment 5, AP 27, Chapter Assessment 27 |
| Identify bones and/or their markings on anatomical models | AP 6-8, Chapter Assessments 6-8 |
| Classify articulations based on their anatomical structure | AP 9, Chapter Assessment 9 |
| Identify the microscopic components of skeletal muscle cells | Article Summary 1, AP 10, Chapter Assessment 10 |
| Identify the gross anatomical components of skeletal muscle cells | Article Summary 1, AP 10, Chapter Assessment 10 |
| Recall function(s) of the major muscles of the body | Discussion: Module 3, AP 11, Chapter Assessment 11 |
| Identify diagrammatically or on anatomical models the major muscles of the human body | AP 11, Chapter Assessment 11 |

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|--|--|
| Recall the structural organization and embryology of the nervous system | AP 4, AP 19-20 Chapter Assessment 4 & 19-20 |
| Summarize the structural and functional types of neurons and neuroglia cells | Discussion; Module 5, AP 16, Chapter Assessment 16 |
| Identify the components of the spinal cord by description or on anatomical models | AP 17, Chapter Assessment 17 |
| Compare the anatomical and functional similarities or differences of the components of the brain stem | Article Summary 3, AP 18, Chapter Assessment 18 |
| Summarize the functional characteristics of the forebrain | Article Summary 3, AP 18, Chapter Assessment 18 |
| Identify the components of the eye and ear by description or on anatomical models | AP 21, Chapter Assessment 21 |
| Summarize the functional characteristics of cranial nerves and spinal nerves | Article Summary 3, AP 17 & 18, Chapter Assessments 17 & 18 |
| Recall the microscopic and functional characteristics of blood cells | Article Summary 2, AP 12, Chapter Assessments 12 |
| Identify the components of blood vessels and the heart by description or on anatomical models | AP 13 & 14, Chapter Assessments 13 & 14 |
| Identify the components of the respiratory and digestive systems by description or on anatomical models | AP 23 & 24, Chapter Assessments 23 & 24 |
| Identify the components of the endocrine, urinary, and reproductive systems by description or on anatomical models | Discussion: Module 7, Article Summary 4, AP 22 & 25-26, Chapter Assessments 22 & 25-26 |

Teaching Strategies

Lecture:

The lecture portion of the course is self-directed through posted readings, presentations, and experiential learning activities in each module. Each module also contains three graded components;

assessment and either a discussion or an Article Summary. There will be one cumulative final exam at the end of the course.

Lab:
The lab portion of the course is facilitated through activities linked to the Wiley Plus textbook. Students will participate in dynamic study modules and the adaptive practice homework assignments (graded) which relate to the content found in each chapter to prepare themselves for each quiz.

Assignments & Assessment Methods:

| Assignment | Value | Frequency |
|-------------------|-------|-----------|
| Assignment Zero | 5 | Once |
| Discussions | 25 | x 4 |
| Article Summary | 25 | x 4 |
| Adaptive Practice | 15 | x 27 |
| Assessments | 20 | x 27 |
| Final | 100 | Once |
| Total points | 1245 | |

Methods of Evaluation

Readings, presentations, and experiential learning activities cover the relevant chapters from the textbook and the photographic atlas.

- Learning activities are comprised of matching, labeling, and other brain games.

Links to the adaptive practices and their due dates are located on the last content page of each module for every chapter.

The AP's may be completed as many times as you wish (up until the due date) to improve your score. Your most recent score will be recorded in the gradebook at the due date NOT the overall best scoring attempt.

Point allotment for this assignment is as follows:

Points for each adaptive practice will be according to the percentage of proficiency of the assignment.

81% - 100% = 15/15 points

61% - 80% = 11.25/15 points

41%-60% = 9/15 points

0%-40% = 0/15 points

Links to the discussion questions and their due dates are located on chapters 1, 11, 18 & 24 . Initial posts must be 300 words in length. Replies to 2 classmates must be 150 words in length each.

- Initial posts must be 300 words in length. Replies to 2 classmates must be 150 words in length each.
- **Initial posts** are due by 11:59 p.m. EST on Wednesdays prior to the due date.
- **Replies to 2 classmates** must be submitted by 11:59 p.m. EST on the due date.
- Your instructor will review all of the posts and replies and make comments the following Sunday.

Links to the Article Summary submission pages and their due dates are located on the content page of Modules 2, 4, 6, & 8. Your task is to select a scholarly article related to a topic in Anatomy covered in the corresponding module and write a 1-page Article Summary with the following guidelines:

- Article Summary must be single spaced, in 12-point, Times New Roman font.
- Include a work cited page.
- Article Summary must include the following sections: objectives, methods, results, and conclusions.
- Article Summary must be submitted by 11:59 p.m. EST on the day they are due.

Links to the assessments and their due dates are located on the last content page of each module.

- Each assessment has multiple-choice questions for a total of 20 points.
- Once you start, you will have 25 minutes to complete each quiz.
- If you start a quiz with less than 25 minutes remaining before 11:59 p.m. on the day it is due , it will timeout at 11:59 p.m. EST and you will only earn credit for the questions that have been completed.

The final exam is located in the Modules and Assignments sections of this course.

- The final exam consists of 50 questions comprised of multiple choice questions and true false questions selected randomly from pools, valued at 2 points per question, for a total of 100 points.
- Once you start, you will have 90 minutes to complete the final exam.
- If you start the final exam with less than 90 minutes remaining in the 24-hour window, it will timeout at 11:59 p.m. EST and you will only earn credit for the questions that have been completed.

Dynamic study modules and optional homework assignments cover the applicable chapters from the textbook and the photographic atlas.

- These items are not graded, but participation is HIGHLY ENCOURAGED.

Grading Scale

| Letter Grade | Percentage |
|--------------|------------|
| A | 95 - 100 |
| A- | 90 - <95 |
| B+ | 87 - <90 |
| B | 83 - <87 |
| B- | 80 - <83 |

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|----|----------|
| C+ | 77 - <80 |
| C | 73 - <77 |
| C- | 70 - <73 |
| D+ | 66 - <70 |
| D | 60 - <66 |
| F | <60 |

Course Policies:

Academic Integrity:

The search for truth, the transmission of knowledge, and the facilitation of moral development are the avowed goals of institutions of higher education around the world. Members of the Marian University community are expected to maintain the highest level of honesty in every phase of their academic lives and to help create and promote an ethical atmosphere in which the goals of the University can be fully realized. All Marian University students are responsible for knowing and avoiding academically dishonest behaviors.

Plagiarism (using the ideas and/or words of someone else without proper reference) and other forms of cheating are not tolerated. *Students guilty of plagiarism or other forms of cheating are subject to disciplinary action that may include failure in the course or expulsion from the University.* For more details on plagiarism, see reference materials posted in the Introduction module. Thus, be sure to properly cite and reference all sources used.

Late Policy & Due Date Extensions: Acceptance of work submitted past the due date or requests of due date extensions, including exams, may be considered in the event of unforeseen, documented hardships, such as medical emergencies, documentable technical issues, death of a loved one, etc. However, simply forgetting, time zone differences, going on vacation, or not performing as well as intended are not acceptable excuses.

Exam Retakes: Exams retakes are different than requesting and being granted an extension on an exam. There are no exam retakes allowed in this course. Once you open an exam, you're stating that you have prepared adequately for the exam and you're accepting the results of the exam.

Extra Credit: There is no extra credit in this course.

Withdrawal:

It is the responsibility of the student to know and follow the University policies on academic integrity and class withdrawal.

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.

Accommodation/Accessibility Statement: Marian University, through policy and practice, is committed to providing equitable access to learning opportunities for all students. If you experience, or anticipate experiencing, barriers to your education due to a disability please contact the Personalized Learning Center by emailing plc@marian.edu or calling **317.955.6540** to start a conversation.

Although a student may request an accommodation at any time, it is best to initiate the accommodation process as early as possible as it may take time to complete the interactive process and accommodations will not be implemented retroactively. If a reasonable accommodation is determined, a Course Accommodation Letter will be created at the Personalized Learning Center for the student to provide to their faculty members with information related to their accommodations. Faculty will not set up disability-related accommodations without a current semester Course Accommodation Letter.

Faculty, Staff or Student questions or concerns regarding the accommodation process can be sent to plc@marian.edu or Mandie Greiwe, agreiwe@marian.edu, Director of the Personalized Learning Center.

Diversity and Inclusivity: Marian's adult and online programs at Marian University is a collaborative academic community committed to fostering a diverse and inclusive community across the intersections of races, ethnicities, religions, sexual orientations, gender identities, ages, disability status, socio-economic backgrounds, political perspectives, cultures, immigration status, and national origins. I am committed to creating a safe, just environment of respect for students, faculty, and staff following our shared Franciscan values. I believe that every individual can improve their skills, learn from their mistakes, and be successful in this course.

****Any changes to this syllabus will be communicated to the student.**