



## **BIO 225 Human Anatomy 5 Credits**

Semester and Year:

Online Instructor:

Email: Contact via Canvas email

### **Required Textbook(s):**

Principles Human Anatomy; Gerard Tortora and Mark Nielsen. 14th Edition. Wiley

Loose-leaf textbook w/access card: ISBN 9781119494539

OR

Access Card w/eBook: ISBN 9781119494652

Students are required to purchase the items 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](http://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.](#))

- **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	Abstract 1, AP 10, Chapter Assessment 10
Identify the gross anatomical components of skeletal muscle cells	Abstract 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
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	Abstract 3, AP 18, Chapter Assessment 18
Summarize the functional characteristics of the forebrain	Abstract 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	Abstract 3, AP 17 & 18, Chapter Assessments 17 & 18
Recall the microscopic and functional characteristics of blood cells	Abstract 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, Abstract 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 abstract. 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
Abstracts	25	x 4
Adaptive Practice	15	x 27
Assessments	20	x 27
Final	100	Once

Total points	1245	
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## 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.

- Each adaptive practice is worth a total of 15 points.
- Points for each adaptive practice will be allotted according to the percentage of proficiency of the assignment. 81% - 100% = 15/15 points , 61% - 80% = 11.25/15 points, 41%-60% = 7.5/15 points, 21%-40% = 3.75/15 points, 0%-20% = 0/15 points.
- Up to the due date, the adaptive practices may be completed as many times as the students desires to improved the score. Once the due date passes scores will be sent to the grade book.

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 (2) days 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 abstract 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 abstract with the following guidelines:

- Abstracts must be single spaced, in 12-point, Times New Roman font.
- Include a work cited page.
- Abstracts must include the following sections: objectives, methods, results, and conclusions.
- Abstracts 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.
- You will have a 24-hour window to take the final exam.
- The 24-hour window starts at 12:01 a.m. EST and ends at 11:59 p.m. EST the day the final exam is scheduled.
- 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
C+	77 - <80
C	73 - <77
C-	70 - <73
D+	66 - <70
D	60 - <66
F	<60

### Course Policies:

**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.

**Plagiarism Statement:** Plagiarism is using the words or ideas of another as your own without giving credit to the source author. This also includes taking a paper found online and submitting it as one's own paper and/or cutting and pasting from a website and submitting it as your work product.

Plagiarism is defined in detail in the Code of Student Rights and Responsibilities under Section 8: Academic Conduct Procedures, as well as an extended description of academic dishonesty:

<https://www.marian.edu/docs/default-source/campus-life/codeofstudentrightsandresponsibilities.pdf?sfvrsn=18> (Links to an external site.)

The following are some helpful websites for understanding plagiarism, documentation and citation:

- Marian University's library: <https://www.marian.edu/current-students/library> (Links to an external site.)
- Plagiarism.org: <https://plagiarism.org/> (Links to an external site.)
- Purdue OWL: <https://owl.purdue.edu/> (Links to an external site.)

## **Student Handbook**

Please refer to the MAP [Student Resources](#) and [Student Support Resources](#) modules for information regarding academic and school of policies including [Services for Students with Disabilities](#).

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