

Course Syllabus

[Jump to Today](#) Edit

BIO 225 Human Anatomy 5 Credits

Semester and Year: First Five-Weeks, Summer 2025

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. While you have the option to obtain your course materials from any source, ordering from the MU Book Store is strongly recommended to ensure you have the required online access code. 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.) [↗ \(http://www.marian.edu/library/Pages/default.aspx\)](http://www.marian.edu/library/Pages/default.aspx)

- **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
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	27	x 4
Article Summary	25	x 4
Adaptive Practice	15	x 27
Assessments	20	x 27
Final	100	Once
Total points	1253	

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. Late posts will receive a 2 point deduction
- **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
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.

Plagiarism is defined in detail in the [Code of Student Rights and Responsibilities](https://www.marian.edu/docs/default-source/campus-life/codeofstudentrightsandresponsibilities.docx?sfvrsn=14)  (<https://www.marian.edu/docs/default-source/campus-life/codeofstudentrightsandresponsibilities.docx?sfvrsn=14>) under Section 8: Academic Conduct Procedures, as well as an extended description of academic dishonesty.

Adherence to Academic Integrity & Use of AI and Chat GPT:

At Marian University, all students are called to uphold academic integrity in all their academic endeavors, including the responsible use of AI tools, reflecting both the institution's commitment to intellectual and moral integrity and its foundational Franciscan values. Students are expected to exemplify honesty, honor, and respect for the truth, demonstrating their intellectual and moral integrity as outlined in the Code of Student Rights and Responsibilities. By embodying these responsibilities, students contribute to a just and flourishing academic community. Students are allowed to use advanced automated tools (artificial intelligence or machine learning tools such as ChatGPT or Dall-E 2) on assignments in this course if that use is properly documented and credited. For example, text generated using ChatGPT-3 should include a citation such as:

"Chat-GPT-3. (YYYY, Month DD of query). "Text of your query." Generated using OpenAI.
<https://chat.openai.com/>"

Material generated using other tools should follow a similar citation convention. Decisions are at the discretion of the instructor, so students are encouraged to communicate with their instructors.

Late Policy & Due Date Extensions:

Assignments will close for submission 72 hours after the due date. Any assignment submitted late in that 72 hour time period will receive a 10% late penalty. For any final exam, paper, etc. that is due the last day of the term/session, the 72-hour late policy does not apply past the date the term or session ends. Late initial posts in discussion boards will receive a 2-point deduction in the rubric.

Further extensions and accommodations, including exams, may be given consideration for unforeseen, documented hardships, such as medical emergencies, documentable technical issues, death of a loved one, travel and weather emergencies, etc. However, simply forgetting, time zone differences, going on vacation, or not performing as well as intended are not acceptable excuses. If you believe an extension or accommodation is warranted, please contact your instructor.

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 (<mailto: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 (<mailto:plc@marian.edu>) or Mandie Greiwe, agreiwe@marian.edu (<mailto:agreiwe@marian.edu>), Director of the Personalized Learning Center.

Diversity & Inclusion Statement: Marian's Adult and Online Programs (MAP) at Marian University is a collaborative academic community committed to fostering a diverse and inclusive community across the intersections of race, ethnicity, religion, sexual orientation, gender identity, age, disability status, socio-economic background, political perspective, culture, immigration status, and national origin. Online programs is committed to creating a safe and just environment of respect for students, faculty, and staff following our shared Franciscan values.










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













Please click here to download a [PDF of the syllabus.](#)













(<https://marian.instructure.com/courses/7545521/files/318560826?wrap=1>)_ ↓













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Course Summary:








Date	Details	Due
Tue May 6, 2025	 Submit: Assignment Zero-Course Scavenger Hunt (https://marian.instructure.com/courses/7545521/assignments/50197527)	due by 11:59pm
Wed May 7, 2025	 Discuss: Welcome and Introductions! (Initial posts due on Wednesdays) (https://marian.instructure.com/courses/7545521/assignments/50197518)	due by 11:59pm
Thu May 8, 2025	 Submit: Chapter 1 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197528)	due by 11:59pm
	 Submit: Chapter 2 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197539)	due by 11:59pm
	 Submit: Chapter 3 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197548)	due by 11:59pm
	 Submit: Chapter 5 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197550)	due by 11:59pm
Sat May 10, 2025	 Take Ch 1: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197565)	due by 11:59pm
	 Take Ch 2: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197577)	due by 11:59pm
	 Take Ch 3: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197578)	due by 11:59pm

Date	Details	Due
	 Take Ch 5: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197580)	due by 11:59pm
	 Submit: Chapter 6 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197551)	due by 11:59pm
Mon May 12, 2025	 Submit: Chapter 7 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197552)	due by 11:59pm
	 Submit: Chapter 8 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197553)	due by 11:59pm
Tue May 13, 2025	 Submit: Article Summary 1 (https://marian.instructure.com/courses/7545521/assignments/50197523)	due by 11:59pm
	 Discuss: Module 3 (Initial posts due on Wednesdays) (https://marian.instructure.com/courses/7545521/assignments/50197520)	due by 11:59pm
Wed May 14, 2025	 Take Ch 6: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197581)	due by 11:59pm
	 Take Ch 7: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197582)	due by 11:59pm
	 Take Ch 8: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197583)	due by 11:59pm
	 Submit: Chapter 10 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197529)	due by 11:59pm
Thu May 15, 2025	 Submit: Chapter 11 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197530)	due by 11:59pm
	 Submit: Chapter 9 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197554)	due by 11:59pm

Date	Details	Due
Sat May 17, 2025	 Take Ch 10: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197555)	due by 11:59pm
	 Take Ch 11: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197556)	due by 11:59pm
	 Take Ch 9: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197585)	due by 11:59pm
Mon May 19, 2025	 Submit: Chapter 12 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197531)	due by 11:59pm
	 Submit: Chapter 13 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197532)	due by 11:59pm
	 Submit: Chapter 14 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197533)	due by 11:59pm
Tue May 20, 2025	 Submit: Chapter 15 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197534)	due by 11:59pm
	 Submit: Article Summary 2 (https://marian.instructure.com/courses/7545521/assignments/50197524)	due by 11:59pm
Wed May 21, 2025	 Discuss: Module 5 (Initial posts due on Wednesdays) (https://marian.instructure.com/courses/7545521/assignments/50197521)	due by 11:59pm
	 Take Ch 12: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197557)	due by 11:59pm
	 Take Ch 13: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197558)	due by 11:59pm
	 Take Ch 14: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197559)	due by 11:59pm

Date	Details	Due
Thu May 22, 2025	 Take Ch 15: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197560)	due by 11:59pm
	 Submit: Chapter 16 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197535)	due by 11:59pm
	 Submit: Chapter 17 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197536)	due by 11:59pm
	 Submit: Chapter 18 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197537)	due by 11:59pm
Sat May 24, 2025	 Take Ch 16: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197561)	due by 11:59pm
	 Take Ch 17: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197562)	due by 11:59pm
	 Take Ch 18: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197563)	due by 11:59pm
Mon May 26, 2025	 Submit: Chapter 19 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197538)	due by 11:59pm
	 Submit: Chapter 20 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197540)	due by 11:59pm
	 Submit: Chapter 21 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197541)	due by 11:59pm
	 Take Ch 19: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197564)	due by 11:59pm
	 Take Ch 20: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197566)	due by 11:59pm

Date	Details	Due
	 Take Ch 21: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197568)	due by 11:59pm
Tue May 27, 2025	 Submit: Article Summary 3 (https://marian.instructure.com/courses/7545521/assignments/50197525)	due by 11:59pm
Wed May 28, 2025	 Discuss: Module 7 (Initial posts due on Wednesdays) (https://marian.instructure.com/courses/7545521/assignments/50197519)	due by 11:59pm
	 Submit: Chapter 22 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197542)	due by 11:59pm
	 Submit: Chapter 23 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197543)	due by 11:59pm
Thu May 29, 2025	 Submit: Chapter 24 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197544)	due by 11:59pm
	 Submit: Chapter 25 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197545)	due by 11:59pm
	 Take Ch 22: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197569)	due by 11:59pm
	 Take Ch 23: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197571)	due by 11:59pm
Sat May 31, 2025	 Take Ch 24: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197573)	due by 11:59pm
	 Take Ch 25: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197574)	due by 11:59pm
Mon Jun 2, 2025	 Submit: Chapter 26 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197546)	due by 11:59pm

Date	Details	Due
	 Submit: Chapter 27 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197547)	due by 11:59pm
	 Submit: Chapter 4 Adaptive Practice (https://marian.instructure.com/courses/7545521/assignments/50197549)	due by 11:59pm
Tue Jun 3, 2025	 Submit: Article Summary 4 (https://marian.instructure.com/courses/7545521/assignments/50197526)	due by 11:59pm
	 Take Ch 26: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197575)	due by 11:59pm
Wed Jun 4, 2025	 Take Ch 27: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197576)	due by 11:59pm
	 Take Ch 4: Assessment (https://marian.instructure.com/courses/7545521/assignments/50197579)	due by 11:59pm
Sat Jun 7, 2025	 Take: FINAL EXAM (https://marian.instructure.com/courses/7545521/assignments/50197517)	due by 11:59pm