



## BIOL 365 – Human Anatomy – Spring 2023

MWF @ 12:30 PM – Baldwin Hall 102

**Instructor** An-Di Yim **Office** 2111 Pershing Building

**Email** andiyim@truman.edu

### Office Hours

M @ 1:30 pm – 3:30 pm, TR @ 9:00 am – 10:30 am, additional time by appointment.

### Suggested Texts

We will also read excerpts from the following books:

Human Structure, 1<sup>st</sup> ed. Cartmill, M. et al. ISBN: 0674418050

Human Anatomy, 8<sup>th</sup> ed. Marieb, E. et al. ISBN: 0134243811

**Electronic versions of the reading materials will be posted on Blackboard. You are not required to purchase them.**

#### *Suggested Texts*

Any medical grade atlas (older editions should suffice), e.g.:

*Atlas of Human Anatomy*, 7<sup>th</sup> ed. Netter, F. ISBN: 0323393225

*Grant's Atlas of Anatomy*, 13<sup>th</sup> ed. Agur, A., Dalley, A. ISBN: 1608317560

*Atlas of Anatomy*, 4<sup>th</sup> ed. Gilroy, A. et al. ISBN: 1684202035

### Course website

All course information is managed on Blackboard (<https://blackboard.truman.edu/>)

### Minimal technology requirements

**HARDWARE:** Macintosh (OS X 10.6 or higher) or Windows computer (Vista or higher), with Intel processor, 1 GB disk space and 512 MB RAM.

**SOFTWARE:** A word processing programs, Microsoft PowerPoint for compatible viewer, Adobe Acrobat Reader, a web browser (Internet Explorer, Firefox, or Chrome for Window computers and Firefox, Chrome, or Safari for Apple computers).

Broadband Internet connection is required.

### Course Description

We will examine the structure and functions of major anatomical systems. This course focuses on relationships within and among these systems. Students will develop a depth of knowledge applicable to future careers in medicine, science, and teaching.

### Learning Objectives

Upon completion of the course, students will know and be able to:

1. Identify anatomical structures using appropriate terminology.
2. Explain functions and relationships within and among body systems.
3. Relate anatomical knowledge to pathological and clinical issues.

## BIOL 365 Course Schedule – Spring 2023

| Week |   |       | Lecture topic(s)   | (Recommended) reading assignment, Quizzes             |
|------|---|-------|--|---|
| 1    | M | 01/16 | <b>NO CLASS</b>  |   |
|      | W | 01/18 | Introduction, Terminology  | Marieb Ch 1   |
|      | F | 01/20 | Histology and body wall  | Marieb Ch 4<br><b>Syllabus Quiz</b> due               |
| 2    | M | 01/23 | Embryogenesis  | Marieb Ch 3   |
|      | W | 01/25 | The vertebrate body  | Cartmill Ch 1   |
|      | F | 01/27 | The vertebral column   | Cartmill Ch 2   |
| 3    | M | 01/30 | The skull pt. 1  | <b>Quiz 1</b> due<br>Marieb pp. 186 - 206             |
|      | W | 02/01 | The skull pt. 2  |   |
|      | F | 02/03 | Joint classification   | Marieb Ch 9   |
| 4    | M | 02/06 | Fundamentals of limb anatomy   | Cartmill Ch 12  |
|      | W | 02/08 | Bones of the upper extremity pt.1  | Marieb pp. 221 - 230                                  |
|      | F | 02/10 | Bones of the upper extremity pt.2/<br>Bones of the lower extremity pt. 1 | Marieb pp. 230 - 240                                  |
| 5    | M | 02/13 | Bones of the lower extremity pt.2  | <b>Quiz 2</b> due                                     |
|      | W | 02/15 | Ethics in Anatomy ( <b>online asynchronous</b> )                         |   |
|      | F | 02/17 | <b>NO CLASS</b>  |   |
| 6    | M | 02/20 | <b>Review</b>  |   |
|      | W | 02/22 | <b>FIRST EXAM</b>  |   |
|      | F | 02/24 | Spinal cord, spinal nerves, and the autonomic nervous system             | Marieb pp. 385 – 389 & pp. 397 - 399<br>Cartmill Ch 3 |
| 7    | M | 02/27 | Epaxial muscles and hypaxial muscles                                     | Marieb pp. 302 - 304<br>Cartmill Ch 4                 |
|      | W | 03/01 | Shoulder and arm   | Cartmill Ch 13  |
|      | F | 03/03 | Forearm and hand   | Cartmill Ch 14  |
| 8    | M | 03/06 | Hip and thigh  | <b>Quiz 3</b> due<br>Cartmill Ch 15                   |
|      | W | 03/08 | Leg and foot   | Cartmill Ch 16  |
|      | F | 03/10 | Thoracic and abdominal muscles   |   |
| 9    | M | 03/13 | <b>NO CLASS</b>  |   |
|      | W | 03/15 | <b>NO CLASS</b>  |   |
|      | F | 03/17 | <b>NO CLASS</b>  |   |
| 10   | M | 03/20 | <b>Review</b>  |   |
|      | W | 03/22 | <b>SECOND EXAM</b>   |   |
|      | F | 03/24 | Heart and great vessels  | Marieb Ch 19  |
| 11   | M | 03/27 | Arteries and veins   | Marieb Ch 20  |
|      | W | 03/29 | Lungs  | Cartmill Ch 8   |

|    |   |       |   |                                       |
|----|---|-------|---|---------------------------------------|
|    | F | 03/31 | Organization of the abdominopelvic cavity | Cartmill Ch 9                         |
| 12 | M | 04/03 | Abdominal viscera                         | <b>Quiz 4</b> due<br>Marieb Ch 23     |
|    | W | 04/05 | Kidney/urinary system                     | Marieb Ch 24                          |
|    | F | 04/07 | Pelvis and perineum                       | Cartmill Ch 11                        |
| 13 | M | 04/10 | <b>NO CLASS</b>                           |                                       |
|    | W | 04/12 | Genitalia/reproductive system             | Marieb Ch 25                          |
|    | F | 04/14 | <b>Review</b>                             |                                       |
| 14 | M | 04/17 | <b>THIRD EXAM</b>                         |                                       |
|    | W | 04/19 | The brain                                 | Marieb pp. 410 - 443                  |
|    | F | 04/21 | Cranial nerves                            | Marieb pp. 468 - 480                  |
| 15 | M | 04/24 | Special senses                            | Marieb Ch 16                          |
|    | W | 04/26 | Head and neck pt. 1                       | Readings will be posted on Blackboard |
|    | F | 04/28 | Head and neck pt. 2                       |                                       |
| 16 | M | 05/01 | Head and neck pt. 3                       | <b>Quiz 5</b> due                     |
|    | W | 05/03 | Lymphatic system                          | Marieb Ch 21                          |
|    | F | 05/05 | <b>Review</b>                             |                                       |
| 17 | F | 05/12 | <b>FINAL EXAM (online asynchronous)</b>   |                                       |

### Assessments

|                      |                  |     |
|----------------------|------------------|-----|
| <b>Exams 1 – 4</b>   | 100 pts each x 4 | 400 |
| <b>Quizzes 1 – 5</b> | 30 pts each x 5  | 150 |
| <b>Syllabus Quiz</b> |                  | 10  |
| <b>Total points</b>  |                  | 560 |

#### Exams

There will be 4 exams throughout the semester. Each exam will consist of questions pertaining to the information covered in each exam's unit. None of the exams are cumulative.

#### Quizzes

There will be 5 quizzes throughout the semester (roughly one every 2 weeks plus the syllabus quiz in week 1). All quizzes are administrated online through Blackboard, they will be open at midnight on the day that they are due and will stay open for 24 hours. You are required to complete each quiz within this time frame. If you have not completed it by the time it closes, you will earn a zero for that quiz. All quizzes are open book.

### Grading Policy

Grading scale:

A ≥ 90%    B = 80% to 89%    C = 70% to 79%    D = 60% to 69%    F ≤ 59%

Late work: **There is a zero-tolerance policy for late work.** There will be no extensions or exceptions. Late work receives a zero.

### Syllabus and Schedule Changes

This syllabus and the schedule of exams are subject to change. All changes will be announced in class and via e-mail announcements reflected on Blackboard.

## What you can expect from me

**Communication:** I will do my best to respond to emails as soon as possible between 8:00 am and 5:00 pm Monday through Friday. If it is something urgent, you are always welcome to stop by my office as I am usually there. I will have office hours in which you can ask questions or review materials. I will not respond to emails late the night before the exam. It is my goal to have time to give consideration to all of your questions, and to meet with all of you when you need to meet.

**Feedback:** Exams or assignments (if we end up having any) will be graded within a week from the day they are due.

## What I expect from you

**Independence:** You are responsible for making sure you understand the material. You will not walk out of class knowing everything. In fact, you are likely to walk out of class knowing little of the material. Every week, you need to study. This may mean studying your notes, but it may also mean conferring with other sources, such as your atlas or revisiting the readings. My job is to make the material more accessible for you, but I cannot learn the material for you.

**Communication:** You are responsible for telling me if you miss something during class. Someone else likely needs to hear it again, too. Likewise, it will not help to tell me later that I went too fast. I cannot accommodate your questions unless you ask them. You are also responsible for contacting me if you have questions.

**Discretion:** That said, make sure your emails are appropriate. Is the answer to your question on the syllabus? Have you taken responsibility (e.g., have you looked for an answer or thought about why there is a problem that you would like to contact me about?) I can answer specific questions about the material. I may not be able to answer vague, broad questions.

## Miscellaneous Course Policies

### Attendance

The complete Attendance Policy can be found in the General Catalog:

<http://catalog.truman.edu/content.php?catoid=20&navoid=1192> - Attendance Policy.

Because this class meets face-to-face you are expected to be in attendance for the full class period, each day class is held.

**Exams:** Exams are given in-person, during class, on the dates listed in the syllabus (except for the final exam). Unless you cannot attend due to an approved accommodation, you should be in class for the exam. Those who are ill, are quarantined, or will miss class due to an absence sanctioned by the University attendance policy, will take a makeup exam within the week. If one of these exceptions applies to you, you must contact me at least 24 hours in advance of the exam. Only students who have a sanctioned excuse are eligible for the makeup exam. The makeup exam may be given digitally through Blackboard and may be different from the live exam. When taking a makeup exam, you are held to the same standards as the in-class exam.

### Substantive Interaction

Truman policy and federal regulations require that students demonstrate that they are academically engaged in the courses they take. You must meet this requirement within the first calendar week of the semester, beginning at 12:00 am on Tuesday (1/17/2023) and ending 11:59 pm Saturday (1/21/2023). Failure to do so, or to provide an explanation of an extenuating circumstance by that date and time will result in your removal from the course. Under certain circumstances, removal could impact your scholarship eligibility or financial aid. For the purposes of this class, establishing academic engagement requires, at a minimum, completing the Syllabus Quiz before 00:00 AM on 1/19/2023.

### **Credit Hour Justification**

The minimum investment of time by the average Truman student necessary to achieve the learning goals in this course are not less than one hour (50 minutes) of classroom instruction and a minimum of two hours of out of class student work each week per credit hour awarded or at least the equivalent of three hours (2:50) of laboratory work, internships, practica, and other academic work each week per credit hour awarded. This average time per week for an average student may have weekly variations. **For this course, an additional 6 to 8 hours of out of class work is expected for students to be successful.**

## **University-wide Resources and Procedures**

### **Disability Services**

To obtain disability-related academic accommodations students with documented disabilities must contact the course instructor and the Office of Student Access and Disability Services (OSA) as soon as possible. Truman complies with ADA requirements. For additional information, refer to the Office of Student Access and Disability Services website at <http://disabilityservices.truman.edu/>. You may also contact OSA by phone at (660) 785-4478 or email [studentaccess@truman.edu](mailto:studentaccess@truman.edu)

### **Emergency Procedures**

In each classroom on campus, there is a poster of emergency procedures explaining best practices in the event of an active shooter/hostile intruder, fire, severe weather, bomb threat, power outage, and medical emergency. This poster is also available as a PDF at this link:

<http://police.truman.edu/files/2015/12/Emergency-Procedures.pdf>. Students should be aware of the classroom environment and note the exits for the room and building. For more detailed information about emergency procedures, please consult the Emergency Guide for Academic Buildings, available at the QR code at the following link: <http://police.truman.edu/emergency-procedures/academic-buildings/>

This six-minute video provides some basic information on how to react in the event there is an active shooter in your location: <http://police.truman.edu/emergency-procedures/active-shooter/active-shooter-preparedness-video/>.

Truman students, faculty, and staff can sign up for the TruAlert emergency text messaging service via TruView. TruAlert sends a text message to all enrolled cell phones in the event of an emergency at the University. To register, sign in to TruView and click on the “Truman” tab. Click on the registration link in the lower right of the page under the “Update and View My Personal Information” channel on the “Update Emergency Text Messaging Information” link. During a campus emergency, information will also be posted on the TruAlert website <http://trualert.truman.edu/>.

### **Discrimination and Title IX**

Truman State University, in compliance with applicable laws and recognizing its deeper commitment to equity, diversity and inclusion which enhances accessibility and promotes excellence in all aspects of the Truman Experience, does not discriminate on the basis of age, color, disability, national origin, race, religion, retaliation, sex (including pregnancy), sexual orientation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Faculty and staff are considered “mandated reporters” and therefore are required to report potential violations of the University’s Anti-Discrimination Policies to the Institutional Compliance Officer.

Title IX prohibits sex harassment, sexual assault, intimate partner violence, stalking and retaliation. Truman State University encourages individuals who believe they may have been impacted by sexual

or gender-based discrimination to consult with the Title IX Coordinator who is available to speak in depth about the resources and options. Faculty and staff are considered “mandated reporters” and therefore are required to report potential incidents of sexual misconduct that they become aware of to the Title IX Coordinator.

For more information on discrimination or Title IX, or to file a complaint contact:

Ryan Nely, Institutional Compliance Officer, Title IX and Section 504 Coordinator  
Office of Institutional Compliance  
Violette Hall, Room 1308  
100 E. Normal Ave  
Kirksville, MO 63501  
Phone: (660) 785-4354  
[titleix@truman.edu](mailto:titleix@truman.edu)

The institution’s complaint procedure can be viewed at <http://titleix.truman.edu/files/2015/08/University-Complaint-Reporting-Resolution-Procedure.pdf> and the complaint form is accessible at <http://titleix.truman.edu/make-a-report/>.