# **CBIO 2213 Human Anatomy & Physiology I Syllabus**

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**Course Number and Title:**
CBIO 2213, Human Anatomy & Physiology I

**Course Brief Description:**
This course has been designed to identify anatomical structures of the human body and to explain the interconnection of how bodily processes operate. Anatomy and Physiology describe the physical structures of the human body and the functionality of each structure as both components work together. Students will develop an adequate understanding of the structure and function of each bodily system within the human organism, diseases and professions dealing with each body system, and the principles of human anatomy and physiology. Identifying and defining various structures by utilizing interactive content and real-world application case studies will aid the learner in understanding, retaining, and utilizing the information in constructing sufficient comprehension of anatomy and physiology. This course will cover the following topics and body systems: Body Structure, Homeostasis, Atoms & Molecules, Biochemistry, Cell Structure and Function, The Chemistry of Water, Cell Biology: Membrane Transport, Tissue: Structure and Function, The Integumentary System, The Skeletal System, Joints, Biomechanics, Muscle Anatomy, Muscle Physiology. (3.0 credit hours)

**Prerequisite Knowledge:**

No prerequisite knowledge is necessary for this course.

**Course Outcomes:**

At the end of this course, students will be able to:

1. Identify the appropriate terminology to effectively communicate information related to anatomy and physiology.
2. Recognize the anatomical structures and explain the physiological functions of body systems.
3. Explain the importance of homeostasis and the interrelationships between organ systems.
4. Apply knowledge of anatomical structure and physiological function to real-world situations.

**Course Materials:**

Textbook: [*Human Anatomy and Physiology I*](https://louis.pressbooks.pub/humananatomyandphysiology1/)by Jonathan Akin, Scott Crousillac, Sharon Lagarde, Ayda Basgul Martin, and Priscilla Stewart

*Human Anatomy and Physiology I* contains H5P questions, links to videos, and self-assessment questions. Students are expected to watch the videos, answer H5P questions, and complete self-assessment questions.

**Instructor Contact Information:** [*Keep as a placeholder for future adopters]*

*Instructor:*

* *Name:*
* *Email:*
* *Phone:*
* *Office:*
* *Office Hours:*
* *Communication policy:*

**Course Schedule:**

*In this schedule, you will list the topics and the corresponding course materials (chapters, videos, etc.) covered in sequence. This schedule demonstrates how you would organize your course around open materials and should be reflective of your course description, goals, and student learning outcomes.*

*The typical academic semester is ~15 weeks, so this template is using 15 modules. Use this to outline the topics you would cover on a module (or weekly or other scale) basis and the corresponding readings/resources that support that content. The table is designed so the top row repeats if the table spreads to a new page.*

| **Module** | **Topics and Concepts****List and describe as necessary the topics and concepts covered in each weekly unit.** | **Corresponding Course Materials** **Where relevant, indicate if the resource is a chapter(s) or section(s) of a larger resource.** |
| --- | --- | --- |
| 1 |  Course IntroductionBody Structure and Homeostasis | Read the syllabus and introduce yourself in the online forum.Read chapters 1 and 2 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice exercises for each chapter.Complete the Module 1 discussion activity, case study, and quiz. |
| 2 | Atoms and Molecules | Read chapter 3 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 2 discussion activity and quiz. |
| 3 | Chemistry of Water | Read chapter 4 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 3 discussion activity, case study, and quiz. |
| 4 | Biochemistry | Read chapter 5 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 4 discussion activity, case study, and quiz. |
| 5 | Cell Structure and Function  | Read chapter 6 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 5 discussion activity and quiz. |
| 6 | Cell Biology: Membrane Transport | Read chapter 7 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 6 discussion activity, case study, and quiz. |
| 7 | Tissue Structure and Functions  | Read chapter 8 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 7 discussion activity, and quiz.Take Exam 1 after all module 7 activities are complete. |
| 8 | Integumentary System | Read chapter 9 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 8 discussion activity, case study, and quiz. |
| 9 | Skeletal System | Read chapter 10 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for the chapter.Complete the Module 9 discussion activity and quiz. |
| 10 | Joints and Biomechanics | Read chapters 11 and 12 the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for each chapter.Complete the Module 10 discussion activity and quiz. |
| 11 | Muscle Anatomy and Movement | Read chapter 13 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for each chapter.Complete the Module 11 discussion activity, case study, and quiz. |
| 12 | Muscle Physiology | Read chapter 14 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for each chapter.Complete the Module 12 discussion activity, case study, and quiz. |
| 13 | The Nervous System  | Note: This module will span 2 weeks.Read chapter 15 from the *Human Anatomy and Physiology I* textbook.Complete the Test Your Knowledge and Practice questions for each chapter.Complete the Module 13 discussion activity. |
| 14 | Sensory Systems | Read chapter 16 from [textbook].Complete the Test Your Knowledge and Practice questions for each chapter.Complete the Module 14 discussion activity.Take Exam 2 after all module 14 activities are complete. |
|  | Final Exam |  |

**Course Policies:** *[outline these as best as you can in terms of what is required for this course]*

* **Technology Requirements**

YouTube and H5P will be used.

Audio equipment will be needed for the pronunciation component of YouTube. YouTube contains captions if preferred. You will need a functional microphone to complete the pronunciation exercises.

* **Computer Skills**

Be familiar with the LMS, such as Moodle, have proficiency with supporting software packages (Microsoft Office), know how to access campus library database resources for assignments.

* **Evaluation**

Evaluation will be based on the following assignments:

14 Module Discussion Activity 10 points (pts) each 140

8 Module Case Study Activity 10 points each 80

14 Module Quiz 10 - 20 pts each (best attempt) 200

2 Exams 50 points each 100

1 Final Exam 50 points 50

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Total Points 570 points

Test Your Knowledge and H5P questions in the textbook are not graded.

* **Grading Policy**

*[Grading scale and late work policy, if applicable]*

**University Policies and Support:** *[Keep as a placeholder for future adopters]*

* **Code of Conduct**
* **Online Etiquette**
* **Academic Integrity**
* **Diversity Statement**
* **Accessibility and Disability Services**
* **Technology Support**
* **Academic Support Services**

**Privacy Policies:** *[Keep as a placeholder for future adopters]*

The following privacy policies are available for the technology and media platforms used in this course.

* [Moodle Privacy Notice](https://moodle.com/privacy-notice/) (Instructor should update with their LMS)
* [Pressbooks Privacy Policy](https://pressbooks.com/privacy-policy/)
* [How does YouTube maintain user privacy?](https://www.youtube.com/howyoutubeworks/our-commitments/protecting-user-data/)