**Fall 2024 BIOL\_2401\_006**

**Human Anatomy and Physiology I**

**T/R Lecture, S142, 8:00 AM – 9:15 AM**

**T/R Lab, S137, 9:15 AM – 10:30 AM**

**Instructor: Alhelí Romero, M.S.**

**Office: S145**

**Email: aromero@southplainscollege.edu**

**Phone number: (806)716-2327**

**Office Hours:**

**Monday** 11:00 AM – 12:00 PM

**Tuesday** 11:00 AM – 12:00 PM

**Wednesday** 10:00 AM – 12:00 PM

**Thursday** 11:00 AM – 12:00 PM

**Friday** 9:00- 11:00 AM

**Course Description:**

Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides hands-on learning experience for exploration of human system components and basic physiology.

**Course Purpose:**

To provide a general understanding of human anatomy and physiology for those students in the allied health fields and to meet requirements for an Associate of Arts Degree or Associate in Science Degree.

**Learning Outcomes:**

1. Use anatomical terminology to identify and describe locations of major organs of each system covered.

2. Explain interrelationships among molecular, cellular, tissue and organ functions in each system.

3. Describe the interdependency and interactions of the systems.

4. Explain contributions of organs and systems to the maintenance of homeostasis.

5. Identify causes and effects of homeostatic imbalances.

6. Describe modern technology and tools used to study anatomy and physiology.

7. Apply appropriate safety and ethical standards.

8. Locate and identify anatomical structures.

9. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems and virtual simulations.

10. Work collaboratively to perform experiments.

11. Demonstrate the steps involved in the scientific method.

12. Communicate results of scientific investigations, analyze data and formulate conclusions.

13. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing and summarizing to make decisions, recommendations and predictions.

**Required Materials:**

Textbook: Human Anatomy & Physiology. Tenth Edition. By Marieb & Hoehn. (e-Version of the text should be provided in the *Inclusive Access* platform)

Online Resources: Mastering A&P- Human Anatomy and Physiology

**Recommended Materials:**

Anki- A free computer program for virtual flashcards with an algorithm designed for spaced repetition learning.

Quizlet- Online flashcard platform

Virtual Notetaking Applications- Notability, OneNote, GoodNotes, etc.

**TexBook Information:**

This course is part of your TexBook program, which means you don’t need to purchase a textbook or access code for this course. TexBook is the required content (either an eBook or online Courseware) for your course, and is provided for you via the Bibliu platform from Day 1 of class.

* Cost of TexBook: this required content is provided as part of a Program called ‘Inclusive Access’, which means that content is provided for you at the lowest price available from the publisher. The cost for this is included in your tuition.
* How to access your digital content via Bibliu: you can access your material via the Bibliu link inside your Blackboard Course, or directly via the Bibliu app. If you have issues with this, please contact your professor, the Bookstore Manager or Bibliu Support (see below).
* The Bibliu platform: you can use the Bibliu platform to enhance your learning experience, with features including: highlighting, notes and reading text aloud. For more details and support on how to use Bibliu, please visit the [BibliU support pages](https://support.bibliu.com/hc/en-us), or contact Bibliu support via the email: [support@bibliu.com](mailto:support@bibliu.com)
* Opting out: you can Opt-Out of the TexBook Program, up until the Opt-Out deadline, via the banner displayed when you open the Bibliu platform. Remember that Opt-Out deadlines vary by term, and if you choose to Opt-Out you will lose access to this low price option, and will need to purchase the content through a different method. If you opt-Out, the fee will be refunded to your account.

Useful contacts:

1. Bookstore Manager: Christian Bruno - [christian.bruno@bibliu.com](mailto:christian.bruno@bibliu.com)
2. Bookstore Text Coordinator: Trish Wells - [patricia.wells@bibliu.com](mailto:patricia.wells@bibliu.com)
3. Bibliu Support: email [support@bibliu.com](mailto:support@bibliu.com)

**Syllabi Statements:**

Students are expected to read through the SPC course syllabi statements regarding Intellectual Exchange, Disabilities, Non-Discrimination, Title IX, CARE, Campus Concealed Carry, COVID-19. These can be found at the following website.

[Syllabus Statements (southplainscollege.edu)](https://www.southplainscollege.edu/syllabusstatements/)

**Grading Criteria:**

1. Lecture Exams- 60%
2. Lab Practical Exams- 30%
3. Assignments- 10%

**Grading Scale:**

A: 100-89.5%

B: 89.49-79.5%

C: 79.49-69.5%

D: 69.49-59.5%

F: 59.49-0%

I. Lecture Exams: There will be five lecture exams throughout the course. These exams will be multiple choice, matching, T/F, or sequence questions. All exams must be taken in person.

II. Lab Practical Exams: There will be three lab practical exams. All exams must be taken in person. These exams can be fill in the blank, matching, T/F, or multiple choice.

III. Assignments: There will be additional assignments throughout the course. These can include quizzes, practice labs, dynamic study modules, case studies, etc. Individual due dates will be posted on Blackboard on a weekly basis. All assignments will be due that week’s Sunday at 11:59 pm.

IV. Final Exams: There will be an optional comprehensive final exam at the end of the course. A student may choose to take the final to replace the grades of one of the lecture exams. The lab practical exam scores cannot be replaced by the optional final.

**Missed Exam Policy:**

One lecture and one lab practical exam can be scheduled for a makeup exam. The student is responsible for notifying the instructor within 24 hours of the scheduled exam time. Students will have the option of attending a make-up exam date within a week of the exam or wait to take the exam on the designated makeup exam day. The designated make-up exam day will be on Friday the week before the final exam.

**Attendance Policy:**

Attendance for a face-to-face course is important for your success and learning, therefore it is strongly encouraged, but not mandatory. Attendance for exams, both lecture and lab practical exams, is mandatory.

**Academic Misconduct:**

Students are expected to follow the policies of Student Conduct in the SPC General Catalog under Academic Integrity, Cheating, and Plagiarism. All students are expected to do their own work. Any form of academic misconduct will not be tolerated and will be handled according to the penalties listed such as Course Grade Reduction and Administrative Course Withdrawal.

**Course Schedule:**

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| --- | --- | --- |
| **Dates** | **Lecture Content / Exams** | **Lab Content** |
| **8/26 - 8/30**  **9/3 - 9/6**  **9/9 - 9/13**  **9/17**  **9/16 - 9/20**  **9/23 - 9/27**  **10/1**  **9/30 - 10/4**  **10/8**  **10/7 – 10/11**  **10/14 – 10/18**  **10/24**  **10/21 – 10/25**  **10/31**  **10/28 – 11/1**  **11/4 – 11/8**  **11/14**  **11/11 – 11/15**  **11/18 – 11/22**  **11/25 – 11/29**  **12/3**  **12/2 – 12/5**  **12/10 8-10 AM** | **Introduction, Chapter 1- Human Body Orientation**  **Chapter 2- Chemistry Comes Alive**  **Chapter 3- Cells,**  **Lecture Exam 1 (Chapters 1,2,3**  **Chapter 4- Tissues**  **Chapter 4 – Tissue, Chapter 5- Integumentary System**  **Lab Practical Exam 1 (Axial Skeleton)**  **Chapter 6- Bones and Skeletal Tissues**  **Lecture Exam 2 (Chapters 4,5,6)**  **Chapter 8- Joints**  **Chapter 9- Muscles and Muscle Tissue**  **Lecture Exam 3 (Chapters 8,9)**  **Chapter 9- Muscles and Muscle Tissue**  **Lab Practical Exam 2 (Appendicular Skeleton)**  **Chapter 11- Fundamentals of Nervous System**  **Chapter 11- Fundamentals of Nervous System, Chapter 12- Central Nervous System**  **Lecture Exam 4 (Chapters 11,12)**  **Chapter 12- Central Nervous System**  **Chapter 13- Peripheral Nervous System**  **Chapter 14- Autonomic Nervous System**  **Lab Practical Exam 3 (Muscles and Nerves)**  **Chapter 14- Autonomic Nervous System**  **Lecture Exam 5 (Chapters 13,14), Optional Final** | **Mastering A&P Platform**  **Axial Skeleton**  **Axial Skeleton**  **Axial Skeleton**  **Tissues, Review**  **Appendicular Skeleton**  **Appendicular Skeleton**  **Appendicular Skeleton, Joints**  **Joints, Review**  **Head, Neck Muscles**  **Upper and Lower Limb Muscles**  **Brain and Spinal Cord**  **Spinal Nerves**  **Muscle and Nerve Review**  **Course Review** |

***The instructor reserves the right to make changes to the syllabus as necessary.***