

Course Syllabus

**BIOL 2402**

**Anatomy and Physiology II (2607075103)**

**Course Description:** Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology.

**Semester Hours Credit:** 4

**Lecture/Lab Hours:** 3-3

**Prerequisite:** BIOL 1408, with a grade of C or better

This prerequisite may be waived if the student has taken a comparable college-level science course.

To enroll in any science course, students must demonstrate readiness to perform college level academic coursework in reading and writing according to Coastal Bend College academic skills assessment guidelines. Basic computer skills are also required.

**Textbook(s): LECTURE** - *Seeley's Anatomy and Physiology with Access (10<sup>th</sup> edition)* ISBN: 9780077421465

**LABORATORY** - *Seeley's Anatomy and Physiology Laboratory Manual (10<sup>th</sup> edition)*

ISBN: 9780077421397

**Student Learning Outcomes:**

Upon successful completion of this course, students will:

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. In the lab, 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.

#### **Evaluation Methods:**

The cumulative grade in this course will be a compilation of the lecture grade and the laboratory grade. The lecture grade will be 75% of the overall grade. The lecture grade will be a compilation of exams, assignments, participation, and attendance. Exams and assignments make up 70% of the grade, and participation plus attendance will make up the other 5% of the grade.

The laboratory grade will be 25% of the overall grade. Every lab has a worksheet that needs to be filled out. Five (5) to twenty (20) questions from each lab worksheet will be assigned during the laboratory period prior to the due date of the worksheet. One lab worksheet will be dropped (the lowest or a missed grade). Lab worksheets will be averaged together and will count as a lab practical grade. The lab grade will be a compilation of the lab worksheet average (8.33% of the total grade) and two practicals (8.33% each). Laboratory practicals are interactive examinations that involve hands-on tasks and questions about those tasks (relating to labs you have completed). These tests are more “applied” than most, and require higher-level thinking skills than pen-and-paper tests.



**ADA Statement:** No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: [GL \(Legal\)](#)

**Special Needs Services:** Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

For more information, contact: in Alice at [sdalice@coastalbend.edu](mailto:sdalice@coastalbend.edu); Beeville at [sdbeeville@coastalbend.edu](mailto:sdbeeville@coastalbend.edu); Kingsville at [sdkingsville@coastalbend.edu](mailto:sdkingsville@coastalbend.edu); and Pleasanton at [sdpleasanton@coastalbend.edu](mailto:sdpleasanton@coastalbend.edu).

**Academic Dishonesty:** Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College's rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies FLB (Local) and FM (Local). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion.

See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

See the [Student Handbook](#) for further explanation of Scholastic Dishonesty.

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**NOTE:** The College website ([www.coastalbend.edu](http://www.coastalbend.edu)) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.