Eastfield College
STEM
Biology 2401
Anatomy and Physiology I
Standard Course Syllabus

Class Time and Location:
Lecture
Room: C260
Time: TR 8:00am – 9:20am
Lab
Room: S301
Time: TR 9:30am – 10:50am

Instructor: Name: Estela Buenrostro
Office Hours: By appointment only
E-mail Address: EstelaBuenrostro@dcccd.edu

Course Description (4 Credit Hours): TCCNS: BIOL 2401: Anatomy and Physiology I 2014 Core Curriculum Foundational Component Area: 030 Life and Physical Sciences
This course examines cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems. This is a transferable course intended for those seeking to complete a Bachelor's Degree. (3 Lec., 3 Lab.)

Coordinating Board Academic Approval Number 26.0707.51 03
Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Prerequisites:
Biology 1406 or SCIT 1407. One of the following must be met: (1) Developmental Reading 0093 AND Developmental Writing 0093; (2) English as a Second Language (ESOL) 0044 AND 0054; or (3) have met Texas Success Initiative (TSI) in Reading and Writing standards AND DCCCD Writing score prerequisite requirement.

Textbooks:
A. Required:


Core Objectives:
BIOL 2401 develops the following Core Objectives:

- Critical Thinking -to include creative thinking, innovation, inquiry, and analysis, evaluation and
synthesis of information.

- **Communication** - to include effective development, interpretation and expression of ideas through written, oral and visual communication.

- **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

- **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

**Core Objective Development Statements:** BIOL 2401 develops **Critical Thinking** and **Empirical and Quantitative Skills** by requiring students to research, analyze and interpret data derived from an experimental setting and drawing a well-informed conclusion of the data through the application of sound biological concepts.

Examples: research paper, case studies, lab report

BIOL 2401 develops **Teamwork** and **Communication** by requiring students to effectively work in a small group on an assigned problem, exercise or course concept that will then be presented in a written, oral or visual format.

Examples: lab experiment, group teaching of course topic, case study, group research project

**Student Learning Outcomes:**

Upon successful completion of this course, students will:

1. To understand the scope of the course and to develop a basic working vocabulary applicable to the study of anatomy and physiology.
2. To understand the concept of physiological homeostasis and apply homeostatic mechanisms to various processes that occur in the body.
3. To demonstrate knowledge of the nature and fundamental structure of all matter and apply that knowledge to the structure and interactions between chemical substances found in biological matter.
4. To demonstrate knowledge of what cells are, how they function, how they synthesize proteins, and how they divide.
5. To survey the fundamental tissue groups that combine to form the human body, to understand how tissues are classified as membranes, and to understand the formation of endocrine and exocrine glands.
6. To demonstrate knowledge of the anatomy and physiology of the integumentary system.
7. To demonstrate knowledge anatomy and physiology of the skeletal system.
8. To demonstrate knowledge of the physiology of muscle contractions and become familiar with the names, locations, and functions of the major muscles.
9. To demonstrate knowledge of the organization of the nervous system and the physiology of nerve impulse conduction.
10. To understand the basic physiology of the senses.

**Evaluation Procedures:**

**Exams**

4 Major lecture exams* – 100 points each = 400 points
4 Laboratory exams – 100 points each = 400 points
1 Team Case Study – 100 points

**Lecture Exams** consist of matching, true/false, multiple choice and short answer essay.

**Laboratory Exams** consist of fill-in-the-blank. There will NOT be a word bank. *Open lab times are posted outside of the lab door. There are also models located at the circulation desk in the library.*

*Make – up Exams*
A comprehensive final will be given for lecture exam missed.
If a laboratory practical is missed, you will receive a grade of **ZERO** for the exam. There are no make-up laboratory practicals.

**Suggested Final grade**

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>810 – 900pts</td>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>720 – 809pts</td>
<td>80 – 89%</td>
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<tr>
<td>630 – 719pts</td>
<td>70 – 79%</td>
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<td>540 – 629pts</td>
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<td>D</td>
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<tr>
<td>0 - 539</td>
<td>0 - 59%</td>
<td>F</td>
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**Attendance Policy:**

There are no make-up classes for laboratory exercises that are missed. You cannot attend another laboratory with another instructor to make-up the work. With the exception of exam dates, you are not required to attend lectures; however, you are responsible for all material covered in lecture including changes to the syllabus.

**Food and Drink Policy:**

Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

*Instructors, if you are teaching in a non-lab classroom, you may allow for food and drink, but you must comply with college requirement of a statement of responsibility from each student. See "Food and Drink Policy"*

**Food and Drink Policy Statement**

We the undersigned understand that bringing drinks and food into the college classroom is a privilege and a responsibility. Out of respect for other members of the Eastfield College community, we agree to take full responsibility for our actions. This includes but is not limited to removing cans, bottles, trash, etc. from the classroom when we leave, and depositing our trash in appropriate receptacles outside the classrooms. Also, we agree to clean up spills and, if special cleaning is needed, to contact appropriate college personnel immediately.”

[Faculty may add wording regarding the prohibition of certain kinds of foods, such as foods with strong odors, etc.]

The right and responsibility for setting classroom food and drink policy does not extend to classrooms or other areas where students and faculty are working directly with or around college property such as computers, lab materials, equipment, and/or college-owned books. Classroom and other spaces such as these will be restricted from the use of food and drink at all times for students and college personnel. In addition, the right and responsibility for setting classroom food...
and drink policy does not extend to items that are generally prohibited from the campus (e.g. alcohol, tobacco products).

**Withdrawal Policy:**
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by Thursday, November 9th 2017. Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office.

If you drop a class via eConnect, make sure to print a copy of the confirmation and keep the copy. In the event of a discrepancy it will be the responsibility of the student to provide documentation of having dropped the class.

**Classroom Etiquette:**
Cell phones should be turned off or silent. Failure to do so can result in being asked to leave the classroom for interrupting lecture.

**Children on Campus:**
The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the institution unless closely supervised by their parent. Minor children should not be brought into classrooms, laboratories or other facilities of the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare the institution will not permit unattended children to be left anywhere on the premises. Parents who have problems with childcare should visit the Counseling and/or Advisement Center to receive referrals to childcare services in the area.

**Institutional Policies and Services**
Institutional Policies relating to this course can be accessed from the following link:


The instructor reserves the right to amend this syllabus as necessary.