Eastfield College  
STEM  
Biology 2401-43356  
Anatomy and Physiology I Hybrid  
Spring 2019  
8 Week 1

Class Time and Location:  
<table>
<thead>
<tr>
<th>Lecture</th>
<th>MTWRFSU</th>
<th>INET</th>
<th>Tammy Oliver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 2:00pm – 4:40pm</td>
<td>TR Room S301</td>
<td>Margaret Joseph</td>
<td></td>
</tr>
</tbody>
</table>

Instructors:  
Dr. Tammy D. Oliver, PhD  
Office Location: C340  
Office Hours: MW – 7:45am – 8:45am  
MW – 12:30pm – 1:00pm  
TR – 1:40pm – 2:40pm  
Office Phone: 972 – 860 – 7147  
E-mail Address: toliver@dcccd.edu

Prof. Margaret Joseph, BA, MS  
Office Location: C236 (FCETL)  
Office Hours: Available by Appointment  
Office Phone: 972 – 8391 – 1047  
E-mail Address: MargaretJoseph@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:


Students must have the lab manual to be successful in class.

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.

Hybrid Course

This is a hybrid course. **Lectures** require internet access for reading assignments, quizzes, lecture exams and extra credit work. Refer to the course calendar for activities and examinations. **Labs** meet face to face TR 2:00 – 4:40pm. Attendance will be taken every lab period and counts toward your grade. **Lab exams** will be taken in lab with Professor Joseph.

**Evaluation Procedures:**

**Exams**

- 3 Major lecture exams* – 100 points each = 300 points
- 10 online Lecture quizzes – 10 points each = 100
- 3 Laboratory exams – 100 points each = 300 points
- Lab Attendance – 10 points each = 100 points
- Lab Quizzes – 10 points each = 100 points
- 1 Team Case Study – 100 points

**Lecture Exams are online**, they consist of matching, true/false and multiple choice. You have 1 opportunity to take the exam. The time limit on the exams are 1 hour for 55 questions. You are expected to take exams without books or notes. Trying to use notes or the book will limit your ability to complete the exam.

**Lecture Quizzes are online**, they consist of matching, true/false and multiple choice. You have 1 opportunity to take the exam. The time limit on the exams are 20 minutes for 10 questions. You are expected to take exams without books or notes. Trying to use notes or the book will limit your ability to complete the exam.
Lab Exams – are face to face exams set up as a standard lab practical. There are no makeups for missed lab exams.

Lab Quizzes – At the end or beginning of each lab or sometimes online. There are no makeups for missed quizzes.

Team Case Study – a case study will be uploaded onto ecampus. There you will find directions on completing the study. There will be group selection for the case study and each member of the group must participate to receive a grade. Case studies must be submitted and completed by the due date to ecampus. Missing the deadline will cause each member of the group to receive a zero.

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.

No cell phone or any Smart device out during examinations, doing so will cause the student to be dismissed from the exam and receive a grade of zero. Do not have notes in your pocket or near during exams.

* Cheating on an exam will result in a grade of ZERO on that exam and a failing grade for the semester.

Final grade

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 - 1000</td>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>800 - 899</td>
<td>80 – 89%</td>
<td>B</td>
</tr>
<tr>
<td>700 – 799</td>
<td>70 – 79%</td>
<td>C</td>
</tr>
<tr>
<td>600 – 699</td>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>0 - 599</td>
<td>0 – 59%</td>
<td>F</td>
</tr>
</tbody>
</table>

When reading chapters use the review sheet posted in ecampus to guide you through the material. The topics on the review sheet are those that you will be responsible for on lecture exams.

Course Outline:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topic</th>
<th>Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/22 – 1/25</td>
<td>Read The Human Body: An Orientation</td>
<td></td>
</tr>
<tr>
<td>1/22 – 1/25</td>
<td>Read Chemistry Comes Alive</td>
<td>2</td>
</tr>
<tr>
<td>1/22 – 1/25</td>
<td>Read Cells: The Living Units</td>
<td>3</td>
</tr>
<tr>
<td>1/22 &amp; 1/24</td>
<td>Attend Lab 2:00 – 4:40pm</td>
<td></td>
</tr>
<tr>
<td>1/27</td>
<td>Ecampus quizzes 1&amp;2 due by 11:30pm</td>
<td></td>
</tr>
<tr>
<td>1/28 – 1/30</td>
<td>Read Tissue: The Living Fabric</td>
<td>4</td>
</tr>
<tr>
<td>1/28 – 1/30</td>
<td>Read The Integumentary System</td>
<td>5</td>
</tr>
<tr>
<td>1/29 &amp; 1/31</td>
<td>Attend Lab 2:00 – 4:40pm</td>
<td></td>
</tr>
</tbody>
</table>
1/31 – 2/03  Review material for chapters 1 - 5
2/03  Ecampus quiz 3 due by 11:30pm
2/04  Mastering A & P Due extra credit by 11:30pm
2/05  LAB EXAM #1 – In Class
2/05  ECAMPUS LECTURE EXAM #1 – Chapters 1 – 5 due by 11:30pm

2/07 – 2/11  Read Bones and Skeletal Tissues  6
2/07 – 2/11  Read The Skeleton  7
2/07 – 2/11  Read Joints  8
2/07  Attend Lab 2:00 – 4:40pm
2/12 & 2/14  Attend Lab 2:00 – 4:40pm
2/12 – 2/16  Read Muscles and Muscle Tissue  9
2/12 – 2/16  Read The Muscular System  10
2/17  Ecampus quizzes 4&5 due by 11:30pm
2/17 – 2/24  Review material for chapters 6 - 10
2/19  Introduce Team Case Study
2/24  Ecampus quiz 6 due by 11:30pm
2/25  MasteringA&P assignments Due extra credit by 11:30pm
2/26  LAB EXAM #2 – In Class
2/26  ECAMPUS LECTURE EXAM #2 – Chapters 6 – 10 due by 11:30pm

2/27 – 3/05  Read Nervous System and Nervous Tissue  11
2/27 – 3/05  Read The Central Nervous System  12
2/27 – 3/05  Read Peripheral Nervous System and Reflex Activity  13
2/27  LAST DAY TO WITHDRAW
2/28  NO CLASSES – FACULTY PROFESSIONAL DEVELOPMENT
3/03  Team Case study due – submit to ecampus
3/05 &3/07  Attend Lab 2:00 – 4:40pm
3/06 – 3/09  Read The Autonomic Nervous System  14
3/06 – 3/09  Read The Special Senses  15
3/10  Ecampus quizzes 7 & 8 due by 11:30pm
3/10 – 3/17  Review material for chapters 11 - 15
3/17  Ecampus quizzes 9 & 10 due by 11:30pm
3/18  Mastering A & P Due extra credit by 11:30pm
3/19  LAB EXAM #3 – In Class
3/19  ECAMPUS LECTURE FINAL (Chapters 11 – 15) due by 11:30pm

Attendance Policy:
• Students are expected to attend all scheduled laboratory and lecture classes. Attendance is taken every class period. IT IS THE STUDENTS RESPONSIBILITY TO RECORD THEIR NAME ON THE SIGN IN SHEETS.
• 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.
• If you miss a lecture the student is responsible for obtaining that material from your classmates.
• Be on time, it is disruptive to other students when one is late for lecture.
• Be on time to lab, instructions are given at the beginning of lab periods. If the student misses the instructions or the entire lab, it is the students responsibility to obtain that material from your classmates.
• Your attendance is graded in the course. Your course grade is based on performance on scheduled laboratory exams, lecture exams, lab quizzes, lecture quizzes and attendance.

Institutional Policies and Services

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


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 **February 27, 2019**. 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:

• **Cellular phones** are to be turned silenced before the class starts, if you step out of class to answer a call take all of your belongings because you will not be allowed to return to class.

• **Talking** or **Texting** during lecture or during the lab instructions will cause you to be removed from the class.

• **No cell phone out during examinations, doing so will cause the student to be dismissed from the exam and receive a grade of zero.**

No cell phone or any Smart device out during examinations, doing so will cause the student to be dismissed from the exam and receive a grade of zero. Do not have notes in your pocket or near during exams.

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