Eastfield College  
STEM  
Biology 2402-46002  
Anatomy and Physiology II Hybrid  
Summer II 2019

**Class Time and Location:**  
| Lecture | MTWRFSU | INET | Tammy Oliver | Lab | 11:50am – 1:50pm | MTWR Room C301 | Tammy Oliver |

**Instructors:**  
**Dr. Tammy D. Oliver, PhD**  
Office Location: C340  
Office Hours: MTMR 7:00am – 7:30am  
MW 2:00pm – 3:00pm  
Office Phone: 972 – 860 – 7147  
E-mail Address: toliver@dccc.edu

**Course Description (4 Credit Hours):**  
**TCCNS: BIOL 2402: Anatomy and Physiology II 2014**  
**Core Curriculum Foundational Component Area: 030 Life and Physical Sciences**  
This is the second course of a two course sequence. Structure and function as related to the human circulatory, respiratory, urinary, digestive, reproductive, and endocrine systems are studied. Emphasis is placed on the interrelationships of these 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**

**Prerequisites:**  
Biology 2401. 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) Reading and Writing standards AND DCCCD Writing score prerequisite requirement.

**Textbooks:**  
A. Required:  

*Human Anatomy and Physiology (e-text) with Modified Mastering A & P, 11th edition*  

**Students must have the lab manual to be successful in class.**
Core Objectives:

BIOL 2402 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 2402 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 2402 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. Learn basic anatomical and physiological terminology.
2. Learn the human structure at cellular, tissue, and system level (endocrine, circulatory, respiratory, digestive, urinary, reproductive systems for Biol 2402), and be able to identify major structures at human models and animal dissections.
3. Understand how body systems are interrelated to maintain the homeostasis as a whole.
4. Learn the concepts and mechanisms of normal physiological processes in endocrine, circulatory, respiratory, digestive, urinary, reproductive systems, and explain how those processes are impaired under abnormal conditions.
5. Perform relevant lab activities or tests to apply the learned physiological principles in professional cases.
6. Discuss the relevance of specific anatomical structures or their related functions to clinical applications to better understand the relationship between structure and function

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 MTWR 11:50am – 1:50pm. Attendance will
be taken every lab period and counts toward your grade. **Lab exams** will be taken in lab with **Tammy Oliver**.

**Evaluation Procedures:**

**Exams**

- 3 Major lecture exams* – 100 points each = 300 points
- 5 online quizzes – 20 points each = 100
- 3 Laboratory exams – 100 points each = 300 points
- Lab Attendance = 100 points
- Lab Quizzes = 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.

**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 beginning, during or end of each lab. **There are no makeups for missed quizzes.**

**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 out during examinations,** doing so will cause the student to be dismissed from the exam and receive a grade of zero.

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

**Final grade**

- 810 – 900pts = 90 – 100% = A
- 720 – 809pts = 80 – 89% = B
- 630 – 719pts = 70 – 79% = C
- 540 – 629pts = 60 – 69% = D
- 0 - 539 = 0 - 59% = F
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>
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<tbody>
<tr>
<td>7/08 – 7/14</td>
<td>Read Blood</td>
<td>17</td>
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<tr>
<td>7/08 – 7/14</td>
<td>Read Heart</td>
<td>18</td>
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<tr>
<td>7/08 – 7/14</td>
<td>Read Blood Vessels</td>
<td>19</td>
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<td>7/08 – 7/14</td>
<td>Read Lymphatic System</td>
<td>20</td>
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<tr>
<td>7/08 – 7/14</td>
<td>Read Immune System</td>
<td>21</td>
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<tr>
<td>7/08 – 7/14</td>
<td>Review material for chapters 17 - 21</td>
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<tr>
<td>7/08 - 7/15</td>
<td>Attend Lab 11:50am – 1:50pm</td>
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<tr>
<td>7/14</td>
<td>Ecampus quizzes 1&amp;2 due by 11:30pm</td>
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<td>7/15</td>
<td>Mastering A &amp; P Due extra credit by 11:30pm</td>
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<td>7/15</td>
<td>ECAMPUS LECTURE EXAM #1 (Chapters 17 – 21) due by 11:30pm</td>
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<td>7/16</td>
<td>LAB EXAM #1 – In Class</td>
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<tr>
<td>7/17 - 7/23</td>
<td>Read Endocrine System</td>
<td>16</td>
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<td>7/17 - 7/23</td>
<td>Read Respiratory System</td>
<td>22</td>
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<td>7/17 - 7/23</td>
<td>Read Digestive System</td>
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<td>7/17 - 7/23</td>
<td>Read Nutrition and Metabolism</td>
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<td>7/17 - 7/23</td>
<td>Review material for chapters 16, 22 - 24</td>
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<tr>
<td>7/17 - 7/24</td>
<td>Attend Lab 11:50am – 1:50pm</td>
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<td>7/23</td>
<td>Ecampus quizzes 3 &amp; 4 due by 11:30pm</td>
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<td>7/24</td>
<td>Mastering A &amp; P Due extra credit by 11:30pm</td>
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<tr>
<td>7/24</td>
<td>ECAMPUS LECTURE EXAM #2 (Chapters 16, 22-24) due by 11:30pm</td>
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<td>7/25</td>
<td>LAB EXAM #2 – In Class</td>
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<tr>
<td>7/26 – 8/05</td>
<td>Read Urinary System</td>
<td>25</td>
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<td>7/26 – 8/05</td>
<td>Read Fluid, Electrolyte, and Acid/Base</td>
<td>26</td>
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<td>7/26 – 8/05</td>
<td>Read Reproductive System</td>
<td>27</td>
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<td>7/26 – 8/05</td>
<td>Read Pregnancy and Human Development</td>
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<td>7/26 – 8/05</td>
<td>Read Heredity</td>
<td>29</td>
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<td>7/26 – 8/05</td>
<td>Review material for chapters 25 - 29</td>
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<td>7/29 – 8/06</td>
<td>Attend Lab 11:50am – 1:50pm</td>
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<td>7/30</td>
<td>LAST DAY TO WITHDRAW</td>
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<td>8/05</td>
<td>Ecampus quiz 5 due by 11:30pm</td>
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<td>8/06</td>
<td>Mastering A &amp; P Due extra credit by 11:30pm</td>
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<td>8/06</td>
<td>ECAMPUS LECTURE FINAL (Chapters 25 – 29) due by 11:30pm</td>
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<td>8/07</td>
<td>LAB EXAM #3 – In Class</td>
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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 graded is based on performance on scheduled laboratory exams, lecture exams, lab 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 **July 30, 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.

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