

**Eastfield College**  
**STEM**  
**Biology 2402-43570**  
**Anatomy and Physiology II**  
**Spring 2019**  
**8 Week 2**

**Class Time and Location:**

Lecture	05:30 P.M.- 08:20 P.M.	TR	Room C261	V. T. Abraham
Lab	05:30 P.M.- 08:20 P.M.	MW	Room C301	Jimmy Arnold

**Instructors:**

Name: V. T. Abraham B.A. (Malone University, Ohio); M.S. (ETSU); M.S. & Doctoral courses (Texas A&M-Commerce)  
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**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.

**Required textbooks:**

Human Anatomy and Physiology (e-text) with Modified Mastering A & P, 11<sup>th</sup> edition  
Paperback binder ready edition, Marieb, E. N. and Hoehn, K., Pearson, 2019, San  
Francisco, ISBN #9780134763415.

Human Anatomy & Physiology: Visual Approach Laboratory Manual – 2nd edition,  
Oliver, Tammy, Bluedoor Publishing, 2017, Minneapolis, ISBN#9781681354910.

**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

## **Evaluation Procedures:**

### **Exams**

3 Major lecture exams\* – 100 points each = 300 points

3 Laboratory exams – 100 points each = 300 points

1 Team Case Study – 100 points

Lecture Exams will consist of multiple-choice questions, and essay questions. Students are expected to supply scantron answer forms for the lecture exams.

**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.*

**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.**

**\*No phones or any other Smart device on the desk during exams.**

### **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**

630 – 700pts	=	90 – 100%	=	A
560 – 629pts	=	80 – 89%	=	B
490 – 559pts	=	70 – 79%	=	C
420 – 489pts	=	60 – 69%	=	D
0 - 419	=	0 - 59%	=	F

### **Course Outline:**

Dates	Topic	Chapters
3/28	Blood	17
4/02	Heart	18
4/04	Blood Vessels	19
4/04	Lymphatic System	20
4/09	Immune System	21
<b>4/10</b>	<b>Mastering A &amp; P Due</b>	
<b>4/11</b>	<b>LECTURE EXAM #1 (Chapters 17 – 21)</b>	
4/16	Endocrine System	16

**4/16**  
4/18

**Introduce Team Case Study**  
Respiratory System

22

4/23	Digestive System	23
4/23	Nutrition and Metabolism	24
<b>4/24</b>	<b><i>Mastering A &amp; P Due</i></b>	
<b>4/25</b>	<b>LECTURE EXAM #2 (Chapters 16, 22-24)</b>	
<b>4/28</b>	<b>Team Case study due – submit to ecampus</b>	
4/30	Urinary System	25
5/02	Fluid, Electrolyte, and Acid/Base	26
<b>5/04</b>	<b><u>LAST DAY TO WITHDRAW</u></b>	
5/07	Reproductive System	27
5/09	Pregnancy and Human Development	28
5/09	Heredity	29
<b>5/13</b>	<b><i>Mastering A &amp; P Due</i></b>	
<b>5/16</b>	<b>LECTURE FINAL (Chapters 25 – 29)</b>	

### **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 student's responsibility to obtain that material from your classmates.
- Your attendance is not graded in the course. Your course graded is based on performance on scheduled laboratory and lecture exams. **BUT**, when making final grade assignments for the semester, attendance will influence 1- or 2-point differences between borderline letter grades.

### **Institutional Policies and Services**

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

<https://www.eastfieldcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx>

### **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 **May 4, 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 phones or any other Smart device on the desk during exams.**
- Visitors are not allowed in the class room

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