Eastfield College  
STEM Division  
BIOL 2401-45310  
Anatomy and Physiology I  
Summer 2019  
6/6-7/3  
Dr. Jessica Kerins

**Class Time and Location**  
Lecture: ONLINE  
Lab: MTWRF 9:40am - 11:40am S301

**Instructor**  
Dr. Jessica Kerins  
Office Phone: 972-860-8317  
Office: C309  
E-mail Address: jkerins@dcccd.edu  
Office Hours: by appointment

**Course Description (4 Credit Hours)**  
This course is a study of the structure and function of human anatomy, including tissues; the integumentary and musculoskeletal systems; and the nervous system. Emphasis is on structure, function, and the interrelationships of the human systems. Content may be either integrated or specialized. This is a transferable Major's course intended for those seeking to complete a Bachelor's Degree. (3 Lec., 3 Lab.)

**Prerequisites**  
BIOL 1406 with a grade of C or better within the last three years or satisfactory score on the Biology CLEP exam. Students must be college level ready in Reading and Writing.

**Required Materials**  
1. Textbook (also used in BIOL 2402 at Eastfield College):  

   **If you buy this book at the Eastfield college bookstore, or if you buy it somewhere else with the EXACT ISBN listed, it comes with access to the online companion site, ModifiedMasteringA&P.**

2. Lab book: is available ONLY at the Eastfield College Bookstore (this will be used in BIOL 2402 as well):  

3. Access to ModifiedMasteringA&P. See note above. **You MUST have access to ModifiedMasteringA&P in order to complete the lecture portion of this course.**

**Suggested Materials**  
   This is a GREAT resource, including very detailed microscopic images of tissues, as well as labeled images of the models we use in the lab. I HIGHLY recommend it. It will serve you well in BIOL 2401/2402 as well as in nursing school. You can find it on Amazon or at this website:  
**Course Objectives**
Identify and describe the anatomy of the cell and the integumentary, skeletal, muscular and nervous; identify and describe epithelial, connective, muscle, and nerve tissue; and explain the physiology of the cells, tissues, and the integumentary, skeletal, muscular and nervous. Use appropriate anatomical and physiological terminology when discussing cells, tissues, and the integumentary, skeletal, muscular and nervous; and interpret the effect of the integumentary, skeletal, muscular and nervous on overall body homeostasis.

**Student Learning Outcomes**
Students who have completed Biology 2401 should be able to do the following:

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.

**Core Objectives**
1. **Critical Thinking** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Communication** - to include effective development, interpretation and expression of ideas through written, oral and visual communication.
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
**Evaluation Procedure**

1 Syllabus Quiz x 20 points = 20 points
3 Lecture Exams x 75 points each = 225 points
3 Laboratory Exams x 100 points each = 300 points
3 Lab Practical Quizzes x 25 points each = 75 points
15 Lecture Homework x 15 points each = 225 points
CH 2&3 activity = 30 points
Microscope quiz = 20 points

TOTAL POINTS = 895 points

**Lecture Exams** There are 3 lecture exams. They consist of multiple choice and true/false questions. They are taken online in eCampus. See the course schedule for dates. You must take online exams using Respondus Lockdown Browser (instructions can be found in eCampus). The online exams are CLOSED book and are TIMED; a one point deduction will apply for every minute over the time limit. You may take the online exams TWICE by the posted deadline; I will accept your best score. **Any missed exams will result in a grade of “0.”** No late exams will be accepted.

**Laboratory Exams** will be taken during lab time. They consist of fill-in-the-blank. There will **NOT** be a word bank. **SPELLING COUNTS!!!** Open lab times are posted outside of the lab door. There are also models located at the circulation desk in the library for study purposes. **Any missed exams will result in a grade of “0.”** There are no make-up lab exams.

**Testing Policies**
Students are not allowed to leave the room for any reason during an exam. All electronic devices must be turned off and put away, in addition to all other personal items.

**Lab Practical Quizzes** will be taken online in eCampus. They are fill-in-the blank and cover the material from lab. **They are CLOSED book quizzes.** You are not to use any outside sources, including (but not limited to) books, internet, other students. These quizzes are timed, and will result in a one point deduction for every minute over the time limit. You MUST use Respondus Lockdown Browser to take lab quizzes (see eCampus for more details). See the course schedule for exact deadlines for each quiz. You may take each quiz TWICE by the posted deadline. **Any quiz not taken by the posted deadline will receive a score of ZERO, no exceptions.** I will NOT reset any quiz for any reason!!

**Lecture Homework** You are expected to complete the lecture portion of this class **on your own time.** ModifiedMasteringAandP assignments will be scheduled daily to ensure you are keeping up with the material.

**CH 2&3 Activity and Microscope Quiz** These assignments cover material that you should **ALREADY KNOW.** You will not be officially tested on this material, but you must complete these assignments if you want to earn the points. Knowledge of this material is essential for success in this class.

**Extra Credit**
There are THREE extra credit assignments found on ModifiedMasteringA&P. These Dynamic Study Modules are organized by unit (exam). Each unit is worth 5 extra credit points, for a total of 15 points. Each unit has its own deadline (see the schedule). No points will be awarded for late work.

Extra credit assignments are graded, and the amount of points earned depends on your performance on each assignment.

NO LATE WORK WILL BE ACCEPTED IN THIS CLASS FOR ANY REASON, SO PLEASE PLAN AHEAD!
**What is a hybrid course?**

This course meets face-to-face for the lab, but the lecture is completed BY YOU, online, ON YOUR OWN TIME. This is what is meant by the term “hybrid.” What does this mean for you? **You are expected to devote time during the week to lecture, IN ADDITION to any time you would normally spend doing homework and studying.** A fully face-to-face class would spend 2 hours each day in lecture. You need to be doing the same. Daily assignments on ModifiedMasteringAandP will be designed to help you learn the material; some time in lab will be devoted to lecture to clarify some topics. Since we meet for lab, you will have the opportunity to ask questions about lecture.

**How your final grade is determined**

Grades are calculated using the above point system. You accumulate points with exams, quizzes, and possible additional assignments. The number of points you have accumulated at the end of the semester will determine your letter grade.

I DO NOT round up grades.

I DO NOT give incompletes.

DO NOT ask me about additional extra credit. If I decide to give other extra credit assignments, I will tell you. Extra credit is not a reward for subpar work and dedication during the semester. DO NOT ask me, “Is there anything I can do to raise my grade?” as my answer will be, “Yes, you should have worked harder and taken this class more seriously from day one.”

**Questions about your grade**

Any questions about your grade for a particular exam, quiz, or assignment MUST be addressed within ONE WEEK of the posted deadline of that test/assignment, unless additional instructions say otherwise. After that time, no grade appeals will be heard.

**Class Policies**

**Attendance**

Attendance is mandatory. Students are expected to be on time and **remain for the entire lab.**

You may miss 2 meeting times without penalty. After that, each additional absence will result in a 5-point deduction from your overall grade. I do not distinguish between excused and unexcused absences, so there is no need to notify me.

If you arrive late to class, it is YOUR responsibility to notify me IN WRITING BY THE END OF THAT CLASS period that you were late. Failure to do so will result in you being marked absent. Please include the following:

1. First and last name
2. Date
3. Course and section

2 tardies equals 1 absence.

YOU are responsible for finding out FROM YOUR CLASSMATES what you may have missed in class or lab. Refer to eCampus, the schedule, and other students to obtain this information, especially missed announcements. DO NOT ask me, “What did I miss?”

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.

**Email**

ALL email messages MUST include the following:

1. First and last name
2. Course and section
3. Detailed question, especially if it concerns a test question or a particular part of an assignment.

I will respond to any emails (or phone messages) within 24 hours.
PLEASE NOTE: I will not respond to the following emails:
   a. Any email that does not include any of the above items
   b. Any email that asks a question that has already been answered (check eCampus announcements, syllabus, etc. FIRST before emailing me!!)

_Academic Honesty_
You can find information about cheating, plagiarism, and collusion in the Institutional Policies link below. **The first incident of academic dishonesty will result in a ZERO for that particular assignment or exam. The second incident will result in a failing grade for the course.**

_Drop Date Deadline_
The last day to withdrawal from this class is **June 25, 2019**

_Classroom Etiquette_
1. Cell phones, blackberries, pagers, ipods, headsets, and other personal electronics, are to be turned off and put away. Students are allowed to use laptop or notebook computers in class, but are expected to use them for classwork purposes only.
2. Be on time.
3. Be respectful of both the instructor and fellow students. This includes no talking during class, especially when the instructor or another student is speaking.
4. No children are allowed in classrooms or laboratories.

_Institutional Policies_
Institutional policies relating to this course can be accessed from the following link: [www.eastfieldcollege.edu/syllabipolicies](http://www.eastfieldcollege.edu/syllabipolicies)

The instructor reserves the right to amend this syllabus as necessary.
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture topics: Ch. 1-7</td>
<td>Lecture topics: Ch. 7-10</td>
<td>Lecture topics: Ch. 11-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 1: The Human Body: An Orientation</td>
<td>Ch. 7: The Skeleton (Appendicular)</td>
<td>Ch. 11: Fundamentals of the Nervous System and Nervous Tissue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 2: Chemistry Comes Alive</td>
<td>Ch. 8: Joints</td>
<td>Ch. 12: The Central Nervous System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 3: Cells: The Living Units</td>
<td>Ch. 9: Muscles and Muscle Tissue</td>
<td>Ch. 13: The PNS and Reflex Activity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 4: Tissue: The Living Fabric</td>
<td>Ch. 10: The Muscular System</td>
<td>Ch. 14: The Autonomic Nervous System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 5: The Integumentary System</td>
<td></td>
<td>Ch. 15: The Special Senses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 6: Bones and Skeletal Tissues</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch. 7: The Skeleton (Axial)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>LECTURE EXAM 1 - (CH 1-6)</td>
</tr>
<tr>
<td>CH 5 HW</td>
<td>CH 6 HW</td>
<td>CH 7A HW</td>
<td>CH 7B HW</td>
<td>CH 7B HW</td>
<td>CH 7B HW</td>
<td>CH 3&amp;3 HW</td>
</tr>
<tr>
<td><strong>Lab 6 &amp; 7</strong></td>
<td><strong>Lab 8</strong></td>
<td><strong>Lab 9</strong></td>
<td><strong>Lab 10</strong></td>
<td><strong>Lab 11</strong></td>
<td><strong>Lab 12</strong></td>
<td><strong>Lab 13</strong></td>
</tr>
<tr>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>LAST DAY TO WITHDRAW</td>
</tr>
<tr>
<td>CH 6 HW</td>
<td>CH 7A HW</td>
<td>CH 7B HW</td>
<td>CH 9A HW</td>
<td>CH 9B HW</td>
<td>CH 9B HW</td>
<td>CH 11 HW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>LECTURE EXAM 2 - (CH 7-10)</td>
</tr>
<tr>
<td>CH 8 HW</td>
<td>CH 9A HW</td>
<td>CH 9B HW</td>
<td>CH 10A HW</td>
<td>CH 10B HW</td>
<td>CH 7-10 Extra Credit</td>
<td>CH 7-10 Extra Credit</td>
</tr>
<tr>
<td><strong>Lab 9 &amp; 10</strong></td>
<td><strong>Lab 11</strong></td>
<td><strong>Lab 12</strong></td>
<td><strong>Lab 13</strong></td>
<td><strong>Lab 14</strong></td>
<td><strong>Lab 15 &amp; 16</strong></td>
<td><strong>Lab 18 &amp; 19</strong></td>
</tr>
<tr>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
</tr>
<tr>
<td>CH 8 HW</td>
<td>CH 9A HW</td>
<td>CH 9B HW</td>
<td>CH 11 HW</td>
<td>CH 12/13B HW</td>
<td>CH 15 HW</td>
<td>CH 15 HW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Due by 11:59pm:</td>
<td><strong>Lab 13</strong></td>
<td><strong>Lab 14</strong></td>
<td><strong>Lab 15 &amp; 16</strong></td>
<td><strong>Lab 18 &amp; 19</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practice LP #2</td>
<td>Nervous System Anatomy</td>
<td>Brain and Cranial Nerve Anatomy</td>
<td>Spinal Cord and Spinal Nerve Anatomy Reflexes and Reactions</td>
<td>Special Senses Sensory Testing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Due by 11:59pm:</td>
<td>LAST DAY TO WITHDRAW</td>
<td>Due by 11:59pm:</td>
<td>Due by 11:59pm:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 11 HW</td>
<td>CH 12/13B HW</td>
<td>CH 15 HW</td>
<td>CH 15 HW</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 6/30 | 7/1 | 7/2 | 7/3 | | | |
|------|-----|-----|-----|---|---|
| Due by 11:59pm: | **Lab 17** | **Lab 18** | **Lab 19** | | | |
| CH 14 HW | Practice LP #3 | Practice LP #3 | Practice LP #3 | | | |
| Lads 13-18 Review | | | | | |