Eastfield College/STEM Division
BIOL 2401 - 41700
Applied Human Anatomy and Physiology I
Course Syllabus
Fall, 2018

Class Time and Location:

<table>
<thead>
<tr>
<th></th>
<th>Lab</th>
<th>5:30 - 8:20 P.M.</th>
<th>TR</th>
<th>S301</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lecture</td>
<td>5:30 - 8:20 P.M.</td>
<td>MW</td>
<td>C331</td>
</tr>
</tbody>
</table>

Instructors:

James Arnold
Location: Office Hours: none
Office Phone: 972-391-1047
E-mail Address: jamesarnold@dcccd.edu

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

<table>
<thead>
<tr>
<th></th>
<th>Office Location: S303</th>
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<tbody>
<tr>
<td></td>
<td>Office Hours: By appointment</td>
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<td></td>
<td>Office Phone: 972-860-8328</td>
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<tr>
<td></td>
<td>E-mail Address: <a href="mailto:VTA4686@dcccd.edu">VTA4686@dcccd.edu</a></td>
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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.
Required Textbooks:

A. Human Anatomy and Physiology with Modified Mastering A & P, 11th edition
   Paperback binder ready edition, Marieb, E. N. and Hoehn, K., Pearson, 2019, San

B. Human Anatomy & Physiology: Visual Approach Laboratory Manual – 2nd edition,

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

BIOL 2401 develops Teamwork and Communication by requiring students to effectively work in
   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**
3 Major lecture exams* – 100 points each = 300 points
3 Laboratory exams – 100 points each = 300 points
1 Team Case study – 100 points/team member = 100 points

*Lecture Exams* consist of multiple choice and essay questions.

*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.

**Make – up Exams**

Students who may have to miss a lecture exam due to exceptional reasons will be permitted to take a comprehensive final on the day of regular final provided that the student submits a written request explaining the reason for absence.

If a laboratory practical is missed, you will receive a grade of **ZERO** for the exam. **There is no make-up for 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.
Final grade
630 – 700 pts = 90 – 100% = A
560 - 629 pts = 80 – 89% = B
490 – 559 pts = 70 – 79% = C
420 – 489 pts = 60 - 69% = D
0-419 pts = 0 -59% = F

Writing Across the Curriculum:
Science courses at Eastfield College follow a principle of “Writing Across the Curriculum.” Each course incorporates a writing element. Writing is a critical part of communication of ideas and is important in the synthesis and analysis of scientific concepts. Writing in this course is accomplished through completion of essay questions on the lecture exams. Essay question must be answered in complete sentences, using proper grammar, correct spellings, giving examples and details to support the statement.

Obtaining Final Course Grades Using eConnect:
Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.

Eastfield College Email Policy:
Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to: http://www.dcccd.edu/netmail/home.html

Course Outline:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topic</th>
<th>Chapter</th>
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<tbody>
<tr>
<td>8/27</td>
<td>The Human Body: An Orientation</td>
<td>1</td>
</tr>
<tr>
<td>8/29</td>
<td>Chemistry Comes Alive</td>
<td>2</td>
</tr>
<tr>
<td>9/03</td>
<td>Cells: The living unit</td>
<td>3</td>
</tr>
<tr>
<td>9/05</td>
<td>Tissue: The Living Fabric</td>
<td>4</td>
</tr>
<tr>
<td>9/10</td>
<td>The Integumentary System</td>
<td>5</td>
</tr>
<tr>
<td>9/10</td>
<td>Mastering AP due on eCampus 11:30 P.M.</td>
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<tr>
<td>9/10</td>
<td>Introduce Team Case Study</td>
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<tr>
<td>9/11</td>
<td>Lab Exam # 1</td>
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<tr>
<td>9/12</td>
<td>Lecture Exam # 1 – Chapters 1- 5</td>
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</tr>
<tr>
<td>9/17</td>
<td>Bones and Skeletal Tissues</td>
<td>6</td>
</tr>
<tr>
<td>9/19</td>
<td>The Skeleton</td>
<td>7</td>
</tr>
<tr>
<td>9/19</td>
<td>Joints</td>
<td>8</td>
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</table>
Note: Any lab mastery assignment for extra credit is due on the day of lab practicum

Attendance Policy:

1. Students are expected to attend and actively participate in all scheduled lecture and lab classes. Attendance is taken every class period. It is the responsibility of the students to record their name on the sign in sheets.

2. There are no make-up classes for laboratory exercises that are missed. You cannot attend another laboratory session with me or another instructor to make-up the work or for extra practice.

3. Your attendance is not graded in the course. Your course grade 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 points differences between borderline letter grades.

4. It is the responsibility of the students to obtain materials from the class mates if you miss a lecture or lab class.

Emergency/Inclement Weather Procedure:

In case of emergency or inclement weather conditions, Eastfield students should listen to KEOM-FM Radio Station (88.5) as the primary media source. In partnership with the Mesquite Independent School District, Eastfield College Administration will notify KEOM immediately after a decision is made to cancel classes on any given day of inclement weather or for emergency purposes. Students may also monitor other local radio and television stations. The earliest an announcement may be broadcast on KEOM Radio is 6 a.m. Students may also refer to the Eastfield College web page www.eastfieldcollege.com for the Inclement Weather announcement under the Features area of the front page. The announcement will be posted immediately following the decision to close the college.
Financial Aid Statement:
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Repeating This Course: (Third Attempt to Enroll in a Course):
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the fall, 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Academic Honesty:

Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work. Collusion is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. An academically dishonest student in this course shall be given a grade of ‘F’. The incident will be reported to the Dean.

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

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

ADA Statement:
Students with a physical, mental or learning disability who require accommodations should contact the college Disability Services Office in C237. Call 972.860.8348 or email efcdso@dcccd.edu. For more information:
http://www.eastfieldcollege.edu/SSI/DSO/index.html

Religious Holidays:
Absences for observance of a religious holy day are excused. Notification of the absence must be given to the instructor in writing at least two weeks prior to the date of the holy day. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within a mutually agreed upon time after the absence.

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 November 17, 2016. 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.

STOP BEFORE YOU DROP:

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions.

Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops

Family Educational Rights and Privacy Act of 1974 (FERPA):

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

DCCCD OIE Faculty Syllabi Statement- FALL 2016

The Office of Institutional Equity, in coordination with DCCCD colleges, has the primary responsibility for reviewing, updating and implementing compliance policies and
procedures. The Institutional Equity and Compliance Officer and the Office of Institutional Equity will ensure compliance with College District policies, federal and state laws related to sexual assault, Title IX, Title II (Americans with Disabilities Act) and the Military Veterans Full Employment Act to support diversity and inclusion.

Students with Disabilities:
If you are a student with a disability and/or special needs, or if you think you may have a disability, please contact the college Disability Services Office (DSO). Please note that all communication with DSO is confidential. If you are eligible for accommodations, please provide or request that the DSO send your accommodation letter to me as soon as possible (students are encouraged to contact DSO at the beginning of the semester). For more information regarding the College Disability Services Office, please visit the Student Services website: https://www.dcccd.edu/SS/OnCampus/DisSvs/DisSvsOffices/Pages/default.aspx/ or contact DCCCD Office of Institutional Equity at (214) 378-1633.
College Disability Services Office 972-860-8348

A Note on Harassment, Discrimination and Sexual Misconduct
We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct. If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence, stalking), retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity, and/or gender expression, please contact your College Title IX Coordinator or the Office of Institutional Equity. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety.

We are concerned about the well-being and development of our students and are available to discuss any concerns. There are both confidential and non-confidential resources and reporting options available to you. If students wish to keep the information confidential, please contact the college Counseling or Student Health Services. As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the College Title IX Coordinator or District Title IX Coordinator. The Title IX Coordinator will contact the student and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX Coordinator or visit www.dcccd.edu/titleIX.

Eastfield College
972-860-7358 Tittle IX Coordinator Rachel Wolf TitleIX-EFC@dcccd.edu

Office of Institutional Equity
214-378-1633 District Title IX Coordinator LaShawn Grant TitleIX-District@dcccd.edu

Classroom Etiquette:
1. In order to create an atmosphere of learning, courtesy for all persons is expected. Such courtesy is exhibited by arriving promptly, turning off cellular phones, tablets, laptops, beepers, headsets, ear plugs, radios or any other electronics before the class starts, and refraining from talking between students during lectures or instruction.

2. Talking or texting during lecture or during the lab instructions will cause you to be removed from the class.

3. 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.

4. Also, please be aware that the class ends when the instructor dismisses the class.

5. No food or drink is allowed in the classroom or in the laboratories.

6. No children are allowed in the classroom or in the laboratories.

7. Be on time and remain in class till the class is dismissed; it is disruptive to other students when one is late for class or leaves early.

8. Any disruptive student will be removed quickly from the class.

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.

Visitors: Visitors are not allowed any time in lecture or lab sessions

(The instructor reserves the right to amend this syllabus as necessary. In case of a change it will be announced in the class and also posted in the eCampus.)