Class Time

Lecture  05:30 P.M.- 08:20 P.M.  TR  Room N236  V. T. Abraham
Lab      05:30 P.M.- 08:20 P.M.  MW  Room S301  Jimmy Arnold

Instructors:

V. T. Abraham B.A. (Malone University, Ohio); M.S. (ETSU); M.S. & Doctoral courses (Texas A&M-Commerce)
Office Location:  S303
Office Hours: By appointment
Office Phone:  972-860-8328
E-mail Address: VTA4686@dcccd.edu

Name: James Arnold
Location: 
Office Hours: 
Office Phone: 972-391-1047
E-mail Address: jamesarnold@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.
Required textbooks:


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.

**Evaluation Procedures:**

**Exams**
- 3 Major lecture exams* – 100 points each = 300 points
- Laboratory exams – 100 points each = 300 points
- 1 Team Case study – 100 points/team member = 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. Those members who do not actively contribute to the case study will receive a lower grade for the case study. Teamwork is also evaluated during the case study. Lack of participation will decrease the teamwork 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 out during examinations, doing so will cause the student to be dismissed from the exam and receive a grade of zero.

*No Smart device on the desk 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>
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<tbody>
<tr>
<td>630 – 700</td>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>560 – 629</td>
<td>80 – 89%</td>
<td>B</td>
</tr>
<tr>
<td>490 – 559</td>
<td>70 – 79%</td>
<td>C</td>
</tr>
<tr>
<td>420 – 489</td>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>0 – 419</td>
<td>0 – 59%</td>
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## Course Outline

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topic</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>1/22</td>
<td>The Human Body: An Orientation</td>
<td>1</td>
</tr>
<tr>
<td>1/24</td>
<td>Chemistry Comes Alive</td>
<td>2</td>
</tr>
<tr>
<td>1/24</td>
<td>Cells: The Living Units</td>
<td>3</td>
</tr>
<tr>
<td>1/29</td>
<td>Tissue: The Living Fabric</td>
<td>4</td>
</tr>
<tr>
<td>1/31</td>
<td>The Integumentary System</td>
<td>5</td>
</tr>
<tr>
<td>2/04</td>
<td>Mastering A&amp;P assignments due</td>
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**2/05**

LECTURE EXAM #1 – Chapters 1 - 5

<table>
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<tr>
<th>Dates</th>
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<tbody>
<tr>
<td>2/07</td>
<td>Bones and Skeletal Tissues</td>
<td>6</td>
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<tr>
<td>2/12</td>
<td>The Skeleton</td>
<td>7</td>
</tr>
<tr>
<td>2/12</td>
<td>Joints</td>
<td>8</td>
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<tr>
<td>2/14</td>
<td>Muscles and Muscle Tissue</td>
<td>9</td>
</tr>
<tr>
<td>2/19</td>
<td>The Muscular System</td>
<td>10</td>
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<tr>
<td>2/19</td>
<td>Nervous System and Nervous Tissue</td>
<td>11</td>
</tr>
<tr>
<td>2/19</td>
<td><strong>Introduce Team Case Study</strong></td>
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<tr>
<td>2/21</td>
<td>The Central Nervous System</td>
<td>12</td>
</tr>
<tr>
<td>2/21</td>
<td>Peripheral Nervous System and Reflex Activity</td>
<td>13</td>
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<tr>
<td>2/25</td>
<td>Mastering A&amp;P assignments due</td>
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**2/26**

LECTURE EXAM #2 – Chapters 6 – 10

**2/27**

LAST DAY TO WITHDRAW

**2/28** NO CLASSES – FACULTY PROFESSIONAL DEVELOPMENT

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topic</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>3/03</td>
<td>Team Case study due – submit to ecampus</td>
<td>14</td>
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<tr>
<td>3/05</td>
<td>The Autonomic Nervous System</td>
<td>15</td>
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<td>3/07</td>
<td>The Special Senses</td>
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<td>3/11 – 3/15</td>
<td><strong>SPRING BREAK</strong></td>
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<tr>
<td>3/18</td>
<td>Mastering A&amp;P assignments due</td>
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**3/21**

LECTURE FINAL – Chapters 11 - 15

**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 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.

**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 phones or any other Smart device on the desk during exams.**

**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](https://www.eastfieldcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx)
The instructor reserves the right to amend this syllabus as necessary.