El Centro College, Department of Biology
SCIT 1408: Applied Human Anatomy and Physiology II
Section 51501/51502, 51103/51104, Fall 2015

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Course Description
A continuation of Applied Human Anatomy and Physiology I designed for students considering a career in the health field. The following body systems are included: digestive, respiratory, cardiovascular, lymphatic/immune, renal/excretory, and reproductive. Emphasis is on homeostasis. (4 credit hours: 3 Lec, 3 Lab)

Required Materials (Lecture and Lab)

- Textbooks
  - *A Photographic Atlas for Anatomy and Physiology*, Hebert, Heisler, Krabbenhoft, Malakhova, Chinn, Publisher: Pearson

- Supplies
  - Scan-tron answer sheets for lecture exams (#882)–6 total
  - #2 lead pencils with erasers for use with the Scan-tron forms

A student of El Centro College is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer. **THECB TAC Rule 4.218 (c)**

Recommended Materials (Lecture and Lab)

- On-line
  - On-line resources that accompany your textbook, [www.mhhe.com/shier13](http://www.mhhe.com/shier13). Includes flash cards, practice tests, and other study resources.

Course Prerequisites
You must have college-level reading and writing skills. Successful completion of SCIT 1407 is required.

Grade Determination
The grade for the course will be based on the accumulation of points distributed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Unit Exams (5)</td>
<td>400</td>
</tr>
<tr>
<td>Lecture Final Exam</td>
<td>100</td>
</tr>
<tr>
<td>Lecture Assignments</td>
<td>30</td>
</tr>
<tr>
<td>Lecture Pop Quizzes</td>
<td>45</td>
</tr>
<tr>
<td>Lab Notebook</td>
<td>70</td>
</tr>
<tr>
<td>Lab Quizzes (10)</td>
<td>90</td>
</tr>
<tr>
<td>Lab Practicals (2)</td>
<td>140</td>
</tr>
<tr>
<td>Total</td>
<td>875</td>
</tr>
</tbody>
</table>
Your current grade can be calculated by 1) adding all of your points, 2) adding the points you would have received if you had made perfect scores on the same assignments, 3) dividing the number earned by the points possible, then 4) multiplying by 100.

A = 90 - 100%  
B = 80 - 89.9%  
C = 70 - 79.9%  
D = 60 - 69.9%  
F = below 60

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**Exams, Quizzes, and Lab Reports**

**Lecture Exams**
- Five unit exams of 100 points each will be given during the semester and the lowest grade will be dropped. Each exam will consist of 40 multiple choice/true-false questions worth two points each and 20 points worth of discussion/definition/short answer questions. **No make-ups will be given for Unit Exams, even for medical and excused absences. The purpose of the dropped exam is for emergencies such as these.**

**Final Exam**
- A **comprehensive** final exam of 100 points will be given during the scheduled final exam period. This exam will consist of 100 multiple choice/true-false questions worth one point each.

**Pop Quizzes**
- Unannounced assessments of your understanding of the material can be given on the Wednesday or Thursday session. These can be over any material since your most recent exam.
- These will be given at the beginning of class and must be turned in 15 minutes after the beginning of class. If you arrive late, you must turn in the quiz 15 minutes after the scheduled start time for the class, you may not be allowed extra time.
- **There will be no make-up quizzes.**
- There will be 4 pop quizzes for 15 points each. One quiz will be dropped, for a total of 45 points.

**Laboratory Quizzes**
- Ten quizzes worth 10 points each will be given at the beginning of the Monday and Tuesday laboratory periods of the week by the laboratory instructors. Each lab quiz will cover the laboratory material from the previous week. The lowest grade of the ten laboratory quizzes will be dropped. **No make-ups will be given, even for medical and excused absences. The purpose of the dropped quiz is for emergencies such as these.**

**Laboratory Notebook**
- Students will need to maintain an organized notebook documenting the material covered in lab. This includes any material that will help you successfully study for the practicals, required illustrations, answers to sample questions, and procedures for experiments. It is **possible** that this may be used during pop quizzes. Incomplete or unmaintained notebooks will be useless in assisting pop quizzes.
- This will be measured 2 times throughout the semester on the days of practical examinations. Each time it is graded, it will be for 35 points for a total of 70 points.
- The grade will be based on your successful documentation of the material since the previous notebook check.
- In order to turn in or use the notebook to assist with quizzes, it must be in a physical (hard) copy. Digital or electronic copies will not be graded.
Laboratory Practicals
- All students must take the lab practicals. Two laboratory practical exams of 70 points each will be given in the lab room on the given date. **No make-ups will be given.**

Time Commitment
Successful performance in the course will take a time commitment of approximately 12-15 hours/week of your time.

Extra Credit Policy
Please do not ask, no extra credit points are allowed. I must treat everyone the same due to the competitive nature of this course.

State Objectives
Objectives for each exam are located on eCampus under the SCANS tab.

Core Curriculum Objectives
Intellectual competencies identified by the Texas Higher Education Coordinating Board (THECB) are available at

End of Course Outcomes
Identify components and functions of the following body systems: digestive, respiratory, cardiovascular, lymphatic/immune, renal/excretory, and reproductive; and apply anatomical terminology to describe the processes that these body systems use to maintain homeostasis of the human body. (CIP 26.0403)

Learning Outcomes
1. The student will be able to use the scientific method to solve problems.
2. The student will recognize the characteristics of life.
3. The student will evaluate the validity of competing theories in biology.
4. The student will recognize current issues in biology that affect the student’s field of study.
5. The student will describe interactions that maintain the balance of life.
6. The student will successfully complete course requirements for application to academic or technical institutions.

Communication Skills
The instructors of El Centro College believe that your ability to communicate by writing, reading, speaking and listening is of CRITICAL importance. You will be expected to communicate effectively in all of your college work, in your work world, and in all of your life situations as a public citizen and as a private person. One learns to communicate effectively over a period of years and in various situations; you are obviously not finished with writing when you complete a writing course. This is also true of the other communication skills. Listed below are the most important ways you will communicate in order to **successfully** complete SCIT 1408:

- **Critical Writing:** Note-taking, short essay answers
- **Critical Reading:** Required textbooks, laboratory station cards
- **Critical Speaking:** Ask and/or answer questions in lecture and laboratory sessions
- **Critical Listening:** Lecture, Laboratory directions
Institutional Policies

Academic Honesty

Academic dishonesty (cheating) will not be tolerated in either lecture or laboratory sections of the course. If cheating is observed, points for that activity will be disallowed, and grades of zero given for cheating may not be dropped. Academic dishonesty includes activities such as plagiarism, copying lab report answers from other students, and collaboration with students who have completed lab quizzes, practicals, and lecture exams. **It can be assumed that tests/exams showing the same or similarly missed questions as evidence of dishonesty. All tests involved can receive a score of zero. Also, students missing similar questions when taking the test at or near the same time will be more closely scrutinized. Instructor reserves the right to schedule separate testing times for students.**

Attendance and Withdrawal Policy

El Centro requires that attendance be monitored by its instructional personnel, and students are expected to attend all scheduled lectures and labs. 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 before the last drop day. It is YOUR responsibility to withdraw from a course. Your instructor cannot initiate this procedure for you. Failure to drop by the deadline will result in your receiving your actual performance grade, usually a grade of “F”. If you drop a class before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. **The last day to drop for this semester is November 19, 2015.**

Disability Services

Students who feel that they may need assistance or accommodations due to a disability should contact the El Centro Disability Services Office in Room A095, phone (214) 860-2411, or visit the DSO webpage at: [http://www.elcentrocollege.edu/students/disability-services](http://www.elcentrocollege.edu/students/disability-services)

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 by the end of the semester. Students who fail to attend or participate after the drop date are also subject to this policy.

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](https://www1.dcccd.edu/coursedrops)

Religious Holy Days Statement

A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, the student notified the instructor of each class scheduled on the date that the student would be absent for a religious holy day. A “religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. The notice shall be in writing and shall
be delivered by the student personally to the instructor, with receipt acknowledged and dated by the instructor or by certified mail, return receipt requested, addressed to the instructor. A student who is excused under this section may not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.

**Children on Campus**

El Centro College strives to protect an environment most conducive to teaching and learning for all enrolled students. Minor children may not be brought to classrooms, labs, testing areas, or study areas of the college. This practice is disruptive to the learning process. Children who are taking part in organized scheduled activities, or who are enrolled in specific classes, are welcomed. For reasons of security and child welfare, the college will not permit unattended children to be left anywhere on the premises. Students/Parents who have problems with childcare should visit the advisement/counseling center or the Adult Resource Center to receive referrals to childcare services in the area.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURE TOPIC</th>
<th>CHAP. #</th>
<th>LAB TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-31</td>
<td>Introduction/Review Endocrine Blood</td>
<td>13</td>
<td>Safety Presentation Review Lab - Endocrine</td>
</tr>
<tr>
<td>9-7</td>
<td>No Class on Monday Blood</td>
<td>14</td>
<td>No class on Monday Blood</td>
</tr>
<tr>
<td>9-14</td>
<td>Cardiovascular System</td>
<td>15</td>
<td>Heart Anatomy, ECG, Heart Dissection</td>
</tr>
<tr>
<td>9-21</td>
<td>Cardiovascular System EXAM 1 (CH. 14-15)</td>
<td>15</td>
<td>Cardiovascular Physiology Circulation</td>
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<tr>
<td>9-28</td>
<td>Respiratory System</td>
<td>19</td>
<td>Respiratory Anatomy</td>
</tr>
<tr>
<td>10-5</td>
<td>Respiratory System Lymphatic and Immune System</td>
<td>19</td>
<td>Respiratory Physiology</td>
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<tr>
<td></td>
<td></td>
<td>16</td>
<td></td>
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<tr>
<td>10-12</td>
<td>Lymphatic and Immune System Exam 2 (Ch. 19 and 16)</td>
<td>16</td>
<td>Lymphatic &amp; Immune System</td>
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<tr>
<td>10-19</td>
<td>Digestive System</td>
<td>17</td>
<td>PRACTICAL #1</td>
</tr>
<tr>
<td>10-26</td>
<td>Digestive System Nutrition</td>
<td>17</td>
<td>Digestive Anatomy</td>
</tr>
<tr>
<td></td>
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<td>18</td>
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<tr>
<td>11-2</td>
<td>Exam 3 (Ch. 17-18) Urinary System</td>
<td>20</td>
<td>Digestive Physiology</td>
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<tr>
<td>11-9</td>
<td>Urinary System Fluid &amp; Electrolyte Balance</td>
<td>20</td>
<td>Urinary Anatomy</td>
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<tr>
<td></td>
<td></td>
<td>21</td>
<td></td>
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<tr>
<td>11-16</td>
<td>Exam 4 (Ch. 20-21) Reproductive System</td>
<td>22</td>
<td>Urinalysis</td>
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<tr>
<td>11-23</td>
<td>No class on Thursday Reproductive System</td>
<td>22</td>
<td>No class on Thursday Reproductive Anatomy and Physiology</td>
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<tr>
<td>11-30</td>
<td>Growth &amp; Development</td>
<td>23</td>
<td>Growth &amp; Development</td>
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<tr>
<td>12-7</td>
<td>Growth &amp; Development EXAM 5 (Ch. 22-23)</td>
<td>23</td>
<td>PRACTICAL # 2</td>
</tr>
<tr>
<td>12-14</td>
<td>COMPREHENSIVE FINAL EXAMS</td>
<td>14-23</td>
<td>No lab this week</td>
</tr>
</tbody>
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Note: The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Biology Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.