**Course Description:** Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. This is a transferable Major's course intended for those seeking to complete a Bachelor's Degree. (3 Lec. 3 Lab.)

**Prerequisite Required:** Biology 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.

**Materials for Instruction:**
1. **Required:**
   - Scantrons – 882E (see Course Outline and Exam Summary)
   - Lab Kits (available in the College Bookstore); SKU 019072000; and nitrile gloves
   - Loose leaf notebook and dividers for Lecture and Lab notes and assignments.

2. **Suggested:**
   - Colored MAP pencils.

**Core Objectives:**
- Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- Communication Skills - 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

**Educational Outcomes:** This course is divided into 4 units. All objectives, which are decided by the district curriculum committee, are measurable or observable and will be evaluated. Different modes of instruction will be utilized for presentation and evaluation.

**Student Learning Outcomes for Lecture**
- Upon successful completion of this course, students will:
  1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
  2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
  3. Describe the interdependency and interactions of the systems.
  4. Explain contributions of organs and systems to the maintenance of homeostasis.
  5. Identify causes and effects of homeostatic imbalances.
  6. Describe modern technology and tools used to study anatomy and physiology.

**Student Learning Outcomes for Lab**
The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.
- Upon successful completion of this course, students will:
  1. Apply appropriate safety and ethical standards.
  2. Locate and identify anatomical structures.
  3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.
  4. Work collaboratively to perform experiments.
  5. Demonstrate the steps involved in the scientific method.
  6. Communicate results of scientific investigations, analyze data and formulate conclusions.
  7. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.
ATTENDANCE—ATTENDANCE IS MANDATORY and class participation is expected. It is important that you arrive to class on time and prepared by reading the assignment. Students are expected to attend all classes and to contact the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early. If an absence occurs, you MUST contact your instructor regarding work you have missed. If you are unable to complete this course, YOU must withdraw by TUESDAY, JUNE 25, 2019 to receive a “W” on your grade report. Withdrawal from a course is a formal procedure, which YOU must initiate; your instructor cannot do it for you. You may withdraw at the Admissions or Counseling Offices or online at https://econnect.dcccd.edu/.

If you stop attending class and fail to withdraw, YOU will receive a grade, usually an “F”. NOTE: Students often drop courses when help is available that would enable them to continue. Discuss your plans with your instructor if you feel the need to withdraw. If you are not present in lecture or lab when attendance is taken, you will be counted absent. You will not be allowed to take quizzes or receive credit for assignments that day.

COURSE CALENDAR: See back page

CLASS PROCEDURES – Successful completion of this course should be accomplished if you:
1) attend and participate in class and lab
2) read and study the textbook and lab manual
3) use the resources available on eCampus (i.e. power points, outlines, study guides, websites)
4) watch lecture power point presentations on eCampus
5) ALL STUDENTS MUST HAVE YOUR NAME, COURSE AND SECTION NUMBER, STUDENT ID#, AND FACULTY NAME ON ALL ASSIGNMENTS TO RECEIVE CREDIT.
6) LATE WORK WILL NOT BE ACCEPTED.
7) DO NOT MARK ON THE EXAM BOOKLETS! ANY marks on the exam booklet may affect your grade.
8) Study Guides, Study Sheets, Outlines for Lecture Exams and Power Points are posted on eCampus.
9) CELL PHONES AND OTHER ELECTRONIC DEVICES ARE NOT PERMITTED TO RING IN THE CLASS OR LAB. PLEASE SET ON SILENT OR VIBRATE.
10) PLEASE DO NOT SEND OR RECEIVE TEXT MESSAGES IN CLASS OR LAB. STUDENTS WHO BRING COMPUTERS TO CLASS WILL ONLY BE ALLOWED TO USE THEM FOR CLASSWORK.

LECTURES—Lecture topics will be covered on eCampus with supplemental lectures in class.
- LECTURE EXAMS: Lecture Exams will be given on a computer in the Testing Center (S-2101); on Saturdays they will be given in W144; Testing Center phone number 214-860-8571. The last Lecture Exam of the semester will be given in the classroom. See course calendar for exam dates.
- Needed to take lecture exam:
  - MVC student or picture ID
  - In the event of a missed exam the instructor must be notified within 24 hours of the scheduled exam and documentation will be required for absence. EXAMS WILL NOT BE GIVEN PAST THE EXAM DEADLINE.
- QUIZZES: Quizzes are on eCampus and count toward your grade. Quizzes are mostly fill-in the blank. You may take these on your personal computer. Do NOT try taking them on your phone.

LABORATORY:
ATTENDANCE IS MANDATORY and each exercise requires FULL laboratory participation for full credit.
- Instructions are given at the beginning of each lab and WILL NOT be repeated. For your safety, students who miss instruction will not be allowed to participate in lab that day and will lose credit for the lab exercise that day.
- Gloves and goggles are required for all Dissection labs and labs using chemicals. Please be sure you have them before class (see Course Calendar). NO GLOVES, NO GOGGLES, NO LAB!
- HAZARDOUS MATERIALS ARE USED IN THE LABORATORY AREAS. MATERIAL SAFETY DATA SHEETS (MSDS), REQUIRED BY OSHA, ARE AVAILABLE FOR ALL STUDENTS TO OBSERVE UPON REQUEST.
- Study Guides for Lab Exams are posted on eCampus.
- CHILDREN ARE NOT ALLOWED IN THE LABORATORY OR UNSUPERVISED ON CAMPUS AT ANY TIME.
- EATING AND/OR DRINKING AND APPLYING MAKE-UP ARE NOT ALLOWED IN THE LABORATORY OR LECTURE ROOMS AT ANY TIME.
- PLEASE WEAR ONLY CLOSED TOE SHOES IN THE LAB.
LABORATORY EXAMS: MUST BE TAKEN DURING THE SCHEDULED LAB EXAM TIME (see course calendar). All lab exams are given in the laboratory classroom.

GRADING

Grades are determined by the following weights. There is NO extra credit.

- **LECTURE** = 70% of Final Grade—from 3 lecture exams worth 100 points each.
- **LABORATORY** = 25% of the Final Grade—3 Lab Practical Exams worth 100 points each
- **ONLINE QUIZZES** = 5% of the Final Grade—posted on eCampus under the Quiz tab. Quizzes may not be taken past the deadline (do not wait until the last minute).
- You are expected to turn in assignments on time, to participate in class, and to be prepared for class and/or lab and to do all quizzes. Having too many absences or writing on exam booklets will impact your grade.

**GRADING SCALE:**  
A = 90 - 100  B = 80 - 89  C = 70 - 79  D= 60 - 69  F \leq 59

**GRADING POSTING:** Grades are posted on [eCampus](http://ecampus.dcccd.edu) by e + your student ID.

**eCampus:** Students are encouraged to use the resources available on eCampus regularly. Go to the website: [http://ecampus.dcccd.edu](http://ecampus.dcccd.edu). Your login is an “e” and your seven-digit student identification number (example: e1234567). Your password is the same as your user name until you change it under personal information. Announcements will be posted on eCampus. A variety of materials will be available to help you learn the required material.

**FINAL GRADE POSTING:** Final grades will be on eConnect.

COURSE OUTLINE AND EXAM SUMMARY

**FORMAT FOR ALL LECTURE EXAMS:** True/False, Multiple Choice, and Matching

| UNIT 1 | LECTURE EXAM #1 - Textbook Chapters 1, 2 & 3  
Topics: Homeostasis, Chemistry, Organic Chemistry, Cells, Cell Cycle and Mitosis, Cell Membranes, DNA, RNA and Protein Synthesis  
LABORATORY EXAM #1 - EXAM ANSWER SHEET WILL BE PROVIDED. BRING YOUR CALCULATOR.  
Topics: Safety, Microscope, Metric System, Membrane Function, Cells, Mitosis, Four-Amino Acid Protein, and Protein Synthesis |
|---|---|
| UNIT 2 | LECTURE EXAM #2—Textbook Chapters 1, 4-7  
Topics: Anatomical Orientation and Terminology, Tissues, Integumentary System, Skeletal System  
LABORATORY EXAM #2 - ONE HOUR TIME LIMIT.  
Topics: Tissues, Skin, and Bones |
| UNIT 3 | LECTURE EXAM #3—Textbook Chapters 8—10  
Topics: Articulations (Joints), Muscle Anatomy and Muscle Physiology  
LABORATORY EXAM #3 – PURCHASE ONE #882E SCANTRON. ONE HOUR TIME LIMIT.  
Topics: Joints (Articulations) and Muscles (Cat and Human); Muscle Structures |
| UNIT 4 | LECTURE EXAM # 4- Textbook Chapters 11-15  
LABORATORY EXAM #4 - PURCHASE ONE #882E SCANTRON. ONE HOUR TIME LIMIT.  
Topics include: Neuron, Spinal Cord, Meninges, Brain, Cranial Nerves, Special Senses (Eye & Ear) |

Institutional Policies

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

[www.mountainviewcollege.edu/syllabipolicies](http://www.mountainviewcollege.edu/syllabipolicies)

DCCCD OIE Faculty Syllabi Statement- FALL 2018

[https://www.dcccd.edu/au/fastfacts/legal/titleix/Pages/TitleIXResources.aspx](https://www.dcccd.edu/au/fastfacts/legal/titleix/Pages/TitleIXResources.aspx)  
Title IX Resources: Dallas County Community College District  
[www.dcccd.edu](http://www.dcccd.edu)

If you or someone you know has been affected by sexual misconduct, help is available. Learn about resources on and off campus.
<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>Lab: Cells; Cell structure review P. 39</td>
<td>HW: Review all Lecture and Lab Material</td>
<td>UNIT I—LAB EXAM - H -121 (ONE - HOUR TIME LIMIT)</td>
<td>Lab: Power Point Lecture</td>
<td>NO CLASS TODAY</td>
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<td>Lab: Mitosis P. 37- 38 &amp; 40 Membrane Function on eCampus</td>
<td>Lab: Begin Tissue Slides</td>
<td>UNIT II—LAB EXAM - H -121</td>
<td>Lab: Power Point Lecture 11. The Skeletal System</td>
<td>NO CLASS TODAY</td>
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<td>Lab: Skeletal Diagrams p.109-158</td>
<td>Lab: Skeletal Identification HW: Power Point Lecture</td>
<td>UNIT II—LAB EXAM - H -121</td>
<td>Lab: Muscle Identification</td>
<td>UNIT I— LECTURE EXAM &amp; RETEST DEADLINE— IN TESTING CENTER SATURDAY (Open 8:00 AM to 1:00 PM)</td>
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<td>Lab: Nervous System Dissection—Eye p. 374; HW: Power Point Lecture 17. Higher Centers; 18A. Special Senses: The Eye and 18B. Special Senses Complete all Nervous System Power Point Lectures MOCK UNIT IV LAB EXAM</td>
<td>Lab: Nervous System Complete all Nervous System</td>
<td>UNIT IV LAB EXAM —H -121 (ONE- HOUR TIME LIMIT) Quiz 10 deadline 11:59 pm eCampus</td>
<td>HW: Power Point Lecture 16. Brain and Cranial Nerves &amp; 16A. The Cranial Nerves Quiz 8 deadline 11:59 pm eCampus</td>
<td>UNIT III—LECTURE EXAM &amp; RETEST DEADLINE— IN TESTING CENTER) (Open 8:00 AM to 1:00 PM)</td>
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<td>Have a Happy 4th of July</td>
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