ANATOMY AND PHYSIOLOGY II
BIOLOGY 2402.66313
LECTURE—TBA
LAB—MONDAY THROUGH THURSDAY 5:30 PM – 7:30 PM; H-121
SUMMER 2 2019 (7/08/19—8/08/19)

DEBBY SUTTON
OFFICE: H-131
EMAIL: dsutton@dcccd.edu or debby.sutton@yahoo.com

STEM DIVISION
DIVISION OFFICE H-129 & H-25A
DIVISION PHONE 214-860-8649;214-860-8593
FAX 214-860-8836

LAB—H121
LAB PHONE: 214-860-8737

4 CREDIT HOURS

COURSE DESCRIPTION: (3 lec, 3 lab). 4 credit hours. Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. This course is transferable.

PREREQUISITE: Biology 2401

MATERIALS FOR INSTRUCTION:
1. REQUIRED:
   Scantrons - FIVE 882E
   Dissecting gloves, Goggles (available in the College Bookstore)
   Loose leaf notebook and dividers for Lecture and Lab notes and assignments.
   Colored MAP pencils.

2. SUGGESTED:

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 3 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.

LECTURE LEARNING OUTCOMES
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

LAB: The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

LAB LEARNING OUTCOMES
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 on time to class and prepared by reading the assignment before class. Students are responsible for attending classes in which they are enrolled. 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, JULY 30, 2019 to receive a “W” on your grade report. Withdrawal from a course is a formal procedure, which MUST be initiated; 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. I hope you will 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 CONTENT AND EXAM TOPIC SUMMARY

#### LECTURE EXAM FORMAT: TRUE AND FALSE, MULTIPLE CHOICE AND MATCHING

| UNIT #1 LECTURE EXAM - PURCHASE ONE #882E SCANTRON: |
| Textbook Chapters 19-21, and 24; Review Carbohydrates, Protein, Lipids, Vitamins & Minerals |

**LABORATORY EXAM #1 – PURCHASE ONE #882E SCANTRON**

• Topics: Digestive System Diagrams, Models, Dissection; Circulatory Diagrams, Models, Cat and Human Blood Vessels, Blood Pressure and Blood Cell Observation

| UNIT #2 LECTURE EXAM - PURCHASE ONE #882E SCANTRON: |
| Textbook Chapters 22, 23, 26 & 27 |
| • Topics: Lymphatic System, Respiratory System and Urinary System |

**LABORATORY EXAM #2 - PURCHASE ONE #882E SCANTRON**

• Topics: Lymphatic System Diagrams and Questions; Respiratory Models and Diagrams, Spirometry; Urinary Models, Urinary Diagrams, and Urinalysis.

| UNIT #3 LECTURE EXAM - PURCHASE ONE #882E SCANTRON: |
| Textbook Chapters 18, 28 and 29 |
| • Topics: Endocrine System, Reproductive System and Embryology |

**LABORATORY EXAM #3 - PURCHASE ONE #882E SCANTRON,**

• Topics: Endocrine Slides—Hypophysis, Thyroid, Parathyroid, Pancreas, Adrenal, Ovaries, Testes; Reproductive Diagrams and Definitions, Reproductive Models (Male, Female, Cell to Embryo, Meiosis), Embryology, & Fetal Circulation.

### COURSE CALENDAR:

See back page

#### CLASS PROCEDURES

Successful completion of this course should be accomplished if you:

1) attend and participate in class, discussions and lab
2) read and study the textbook and lab manual
3) use the resources available on eCampus (i.e. outlines, study guides, quizzes, study sheets, websites)
4) ALL STUDENTS MUST HAVE YOUR NAME, COURSE AND SECTION NUMBER, STUDENT ID#, AND FACULTY NAME ON ALL ASSIGNMENTS TO RECEIVE CREDIT.

#### LECTURES

Lecture topics will be covered on eCampus with supplemental lectures in class.

- **LECTURE EXAMS:** Given IN CLASS, in the Testing Center (S-2101); phone number 214-860-8571, and on eCampus. See course calendar for exam dates. The Unit 3 Lecture Exam will be given in class.

  - **Needed to take lecture exam:**
    1) #2 pencils
2) proper Scantron forms (available in the bookstore). You **MUST** use the correct Scantron form (see exam summary) to receive your grade.

3) MVC Student ID if taken in the Testing Center.

4) 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.**

- **LATE WORK WILL NOT BE ACCEPTED.**
- **DO NOT MARK ON THE EXAM BOOKLETS!** ANY marks on the exam booklet will result in the loss of curve on your exam.
- Study Guides, Study Sheets and Outlines for Lecture Exams are on eCampus.
- **CELL PHONES AND OTHER ELECTRONIC DEVICES ARE NOT PERMITTED TO RING IN THE CLASS OR LAB. PLEASE SET ON SILENT OR VIBRATE.**
- **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.**

There are two types of quizzes on eCampus. The ones under the Unit Lecture material are for practice. The **Quizzes** over the lecture material on eCampus under the Quizzes button are part of your final grade.

**LABORATORY:** **ATTENDANCE IS MANDATORY** and each exercise requires **full laboratory participation** for full credit. Attendance is taken at the beginning of each class period.

- Instructions will be at the beginning of each lab and they **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.
- Study Guides for Lab Exams are on eCampus.
- Gloves and goggles are **required** for all Dissection labs and labs using chemicals. **Please purchase 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.**
- **CHILDREN ARE NOT ALLOWED IN THE LABORATORY OR UNSUPERVISED ON CAMPUS AT ANY TIME.**
- **NOT ALLOWED IN THE LABORATORY AT ANY TIME:** EATING, DRINKING, CHEWING GUM, OR APPLYING MAKE-UP

**LABORATORY EXAMS:** **LAB EXAMS MUST** BE TAKEN DURING THE SCHEDULED LAB EXAM TIME (see course calendar). There is a one-hour time limit for lab exams.

- You are required to purchase a Scantron answer sheet (882E) for lab exams in the college bookstore.

**GRADING**

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

- **LECTURE = 60% 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
- **ASSIGNMENTS = 10% of the Final Grade**—Feedback loops posted on eCampus under the Assignments tab.
- **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:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 - 100</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 59</td>
</tr>
</tbody>
</table>

**EGrading:** Individual test grades and assignment grades are posted on eCampus 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 username 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 posted on eConnect.

**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 - SPRING 2019**

[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.
### BIOL 2402.66313—LECTURE—TBA; LAB MTWR—5:30 PM -7:30 PM H-121

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ORIENTATION &amp; MSDS VIDEO</strong></td>
<td><strong>LECTURE</strong></td>
<td><strong>LAB</strong></td>
<td><strong>LECTURE</strong></td>
<td><strong>LAB</strong></td>
</tr>
<tr>
<td><strong>7/8</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>7/9</strong></td>
<td><strong>7/10</strong></td>
<td><strong>7/11</strong></td>
<td></td>
<td><strong>UNIT II LECTURE EXAM &amp; Retest</strong></td>
</tr>
<tr>
<td>Lec: Renal Filtration Lab: Dissection Respiratory Anatomy, Renal Dissection: Sheep Kidney pp.615-616 *Bring Gloves Urinary Diagrams &amp; Models: pp. 608—614</td>
<td></td>
<td></td>
<td>In Testing Center Test &amp; retest deadline Sat. 7/27 1:00 pm</td>
<td></td>
</tr>
<tr>
<td><strong>7/15</strong></td>
<td><strong>7/16</strong></td>
<td><strong>7/17</strong></td>
<td><strong>7/18</strong></td>
<td><strong>7/19</strong></td>
</tr>
<tr>
<td><strong>7/22</strong></td>
<td><strong>7/23</strong></td>
<td><strong>7/24</strong></td>
<td><strong>7/25</strong></td>
<td>In Testing Center Test &amp; retest deadline Sat. 7/27 1:00 pm</td>
</tr>
<tr>
<td>Lec: Male Reproductive System Lab: Endocrine Slides – Testes, Sperm Cell Mock Endocrine Exam</td>
<td><strong>QUIZ 9 due 11:59 pm eCampus</strong></td>
<td>Today is the last day to Withdraw with a “W”</td>
<td></td>
<td>Quiz 10 due Sun. 8/3 11:59 pm eCampus</td>
</tr>
<tr>
<td><strong>7/29</strong></td>
<td><strong>7/30</strong></td>
<td><strong>7/31</strong></td>
<td><strong>8/1</strong></td>
<td><strong>8/2</strong></td>
</tr>
<tr>
<td>Lec: Reproduction and Embryology Lab: Reproductive Models Fetal Circulation pp. 509</td>
<td>Lab: Mock Endocrine Exam</td>
<td></td>
<td></td>
<td>8/4</td>
</tr>
<tr>
<td><strong>8/5</strong></td>
<td><strong>8/6</strong></td>
<td><strong>8/7</strong></td>
<td><strong>8/8</strong></td>
<td><strong>8/9</strong></td>
</tr>
<tr>
<td><strong>LAB EXAM III</strong></td>
<td><strong>UNIT III LECTURE EXAM</strong></td>
<td><strong>UNIT III LECTURE EXAM</strong></td>
<td><strong>8/10</strong></td>
<td><strong>Relax and Enjoy your Break!</strong></td>
</tr>
<tr>
<td>Class Time (One - Hour Time Limit)</td>
<td>10:40 AM in class Retest on eCampus from 9:30 AM until 11:59 PM tonight</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>