BIOL 2401 – Human Anatomy & Physiology (Part 1)

Tuesday - Lecture (LHSB 314)
Thursday - Lecture/Lab (LHSB 312)

Instructor Information:

Email: Eagle online must be used to email during the semester. If you have problem with your Eagle online access or after this semester ends, you can email through my regular email address: jyoti.wagle@hccs.edu

Telephone: 713 – 718 – 2541

Learning web site: http://learning.hccs.edu/faculty/jyoti.wagle

Office location and hours: My office is in LHSB 401. Please go to LHSB 402, the science office, and ask the assistant to call my extension. My office hours are T 11:30 - 12:30 and R 2:30 - 3:30. Please feel free to contact me for alternative time.

Prerequisites:

College reading level as determined by SAT, ACT, TASP, or successfully passing ENGL 0305 with a "C" or better.

Although BIOL 1406 is not a required prerequisite for BIOL 2401, it is highly recommended to understand some of the key concepts taught in this course.

Instructional Materials


   Available only at HCC bookstore located on Central Campus (1300 Holman)


   *Optional – highly recommended; Available only at HCC bookstore located on Central Campus (1300 Holman)

4. Eagle online (EO 2.0) section is available on the first day of the semester by going to: http://eo2.mrooms.net
5. Lab study pages for 24/7 lab review: http://hccs.edu/biologylabs
7. Publishers website with additional study tools:
   http://www.pearsoncustom.com/tx/hcc_bio

Course Goals & Description
The objective of this course is to give students going into health sciences a basic knowledge of Human Anatomy & Physiology. Topics include anatomical terminology, tissues, and four out of eleven systems (Integumentary, Skeletal, Muscular and Nervous) that make up human body.

<table>
<thead>
<tr>
<th>SEMESTER CALENDAR</th>
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<td><strong>Week</strong></td>
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| 1/13 | Organization session  
Major Themes of Anatomy & Physiology (Pg. 1-25) |
| 1/20 | Major Themes of Anatomy & Physiology contd…..Histology (pg. 108-143) |
| 1/27 | The Integumentary System (pg. 144-168) |
| 2/3 | **Mastering Assignments-Chap. 1, 4 & 5 – 11:55pm, Feb 3rd**  
1st Lecture Exam – Feb 4th  
The Axial Skeletal System (pg. 197-231) |
| 2/10 | The Appendicular Skeletal System (pg. 232-252) |
| 2/17 | The Skeletal System - Bone Tissue (pg. 169-196)  
Articulations (pg. 253-278) |
| 2/24 | **Mastering Assignment-Chap. 6, 7, 8 & 9–11:55pm, March 3rd**  
2nd Lecture Exam – March 4th  
Lab review time |
| 3/3 | **Mastering Assignment-Chap. 10, 11 & 12–11:55pm, April 7th**  
3rd Lecture Exam – April 8th  
Spinal Nerves & Reflexes (424-447) |
| 4/7 | The Brain and Cranial Nerves (pg. 448-493) |
| 4/14 | Special Senses (pg. 548-592)  
Sensory Pathways & Somatic Nervous System (494-515) |
| 4/21 | The Autonomic Nervous System (pg. 516-547)  
2nd Lab Exam and Lab manual due – May 1st |
| 5/5 | **Mastering Assignment-Chap. 13, 14, 15, 16 & 17–11:55pm, May 7th**  
4th Lecture Exam and mandatory final comprehensive Lect. Exam:  
May 6th for 11:30-2:30 class  
May 8th for 8:30-11:30 class |
Student Learning Objectives (SLOs)

1. Students will be able to understand and apply the principals of homeostasis and the importance of feedback loops.
2. Students will be able to evaluate information and make conclusions based on their knowledge of membrane transport.
3. Students will be able to apply their knowledge of muscle structure to explain how muscles function.
4. Students will be able to apply their knowledge of the structure of the skeletal system to its functions.
5. Students will be able to understand and apply their knowledge of changes in polarity on membrane potential.
6. Students will be able to apply and demonstrate their knowledge concerning reflex arcs.
7. Students will be able to apply the knowledge gained in lab utilizing anatomical models, physiological experiments, histological slides and the compound light microscope.
8. Students will utilize online interactive evaluation tools to gauge their understanding of key anatomical and physiological concepts prior to lecture/examinations/quizzes where applicable.

Instructional Methods
This is a lecture - lab course. Through Eagle online for this course, I provide a plethora of study tools. For lecture part of this course, you have access to chapter outlines, PowerPoints, short 1-5 minutes audio files, animations, flashcards, puzzles and practice quizzes for each chapter. Due to the robust nature of this course, there is also a study guide that is highly recommended (refer to the first page for more details). During lab, you will be working in groups to study microscope slides, models, human bones and cat dissection. I have also created extensive lab review pages (http://hccs.edu/biologylabs) to help you review the lab material. Through Eagle online, you should be able to print out checklists for the two lab exams.

Student Assignments
For this lecture-lab course, you must study the text chapters and complete the lab reports in a timely manner. The study guide and lab study pages have been developed to enhance your learning. To better understand each topic, you must read the textbook and review the material by using the study guide and Eagle online tools. You are given the entire reading, testing and assignment schedule in the beginning of the semester. Plan your time well and don’t wait till the last minute to study for this course.

Grading
You will take lecture and lab exams to determine how successful you are at achieving the mastery of course content and skills. You will also complete assignments on Mastering A and P website that will help you review the chapter information. For additional resources such as on-campus tutoring, on-line tutoring and open lab review sessions please check on Eagle on-line.
<table>
<thead>
<tr>
<th>Exams and Quizzes</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>5 exams (out of 6 lecture/lab exams)</td>
<td>500 points</td>
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<tr>
<td>Dept. Comprehensive Final Exam</td>
<td>20 points</td>
</tr>
<tr>
<td>Lab reports</td>
<td>50 points</td>
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<tr>
<td>Mastering A&amp;P</td>
<td>50 points</td>
</tr>
<tr>
<td>Total:</td>
<td>620 points</td>
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<tr>
<td>90 – 100% = A</td>
<td></td>
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<tr>
<td>80 - 89% = B</td>
<td></td>
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<tr>
<td>70 - 79% = C</td>
<td></td>
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<tr>
<td>60 - 69% = D</td>
<td></td>
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<tr>
<td>Below 60% = F</td>
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1. Lecture exams consist of multiple-choice, true-false, matching, and short answer questions. Use Study Guide and Chapter Help on Eagle on-line to access outlines and other study tools.
2. Lab exams are practical exam with stations set up in the lab. You will move from station to station answering specific questions. Use the Lab Help link on Eagle online to access check list and digital images of lab material (http://hccs.edu/biologylabs).
3. All lecture and lab exams are of equal credit (100 points each).
4. There are extra credit questions in lecture and lab exams. However, only a maximum of 100 points will be given on any exam.
5. A maximum of two hour period will be allowed to complete any lecture or lab exam.
6. If, for whatever reason, you are late for a lecture or a lab exam, you will be allowed to take the exam as long as nobody else has completed the exam and left the room. Also, you will get only the remaining time to take your exam.
7. If you take all 6 lecture and lab exams, one exam (lecture or lab) with the lowest score will be dropped.
8. If, for whatever reason, you miss one exam, that exam will automatically become your drop exam.
9. If, for whatever reason, you miss a second exam, it will be counted as a zero score.
10. PLEASE DO NOT ASK FOR A MAKE-UP IF YOU MISSED OR MESSED UP AN EXAM.
11. You will also take a mandatory departmental final lecture exam at the end of the semester.
12. You will be using Mastering A&P for this course (www.masteringaandp.com) that is provided by the publisher of your textbook. On this website, you will get assignments that are linked to the course SLOs.
    If you have purchased a new textbook through HCC bookstore, then the code is included in the book.
    Otherwise you will need to purchase the code for Mastering A&P by going to www.masteringaandp.com.
    You will also need the course code that will be given to you in class.
13. In lab, you are encouraged to work in groups. However, you are responsible for your own lab reports. You must answer the questions in pre-lab and lab report soon after the exercise is completed. Although you are allowed to discuss the answers with each other, no copied answers will be accepted. Please do not lend your lab manual or borrow a lab manual to copy answers.
14. Lab reports will be graded only during the lab exams.

Course Policies
1. Textbook and lab manual are required. Study guide is highly recommended.
2. Once you are registered in the course, you will be required to log into Eagle online (EO) (http://eo2.mrroms.net) frequently to access study tools, grades, announcements, reminders and emails.

3. Class attendance is mandated by the state. Attendance is taken on daily basis and will be given only if you attend full class period. Coming late to the class or leaving early for whatever reason, is considered as disruption and no attendance will be given for that day. You are responsible for everything covered or announced during your absence.
   Your attendance begins on the first day of the semester.
   More than four absences may result in an administrative withdrawal.
   **If you stop attending the course or do not participate in the assessment, you are still responsible for withdrawing from the course before the withdrawal deadline. Failing to do so can result into an F grade at the end of the semester.**

4. To avoid disruption in the class, all cell phones must be set on silent mode. Children or anybody who is not officially registered in the course will not be allowed in the class. Eating, drinking, or smoking is NOT allowed in the class.

5. You must read the lab safety rules before participating in any of the lab activities. The release form must be signed during the first lab session.

6. All grades will be posted on your Eagle online and can be accessed 24/7.

**HCC Policy Statement - ADA**

**Services to Students with Disabilities**

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office.

For questions, please contact Donna Price at 713.718.5165 or the Disability Counselor at your college. To visit the ADA Web site, please visit www.hccs.edu then click Future students, scroll down the page and click on the words Disability Information.

**HCC Policy Statement: Academic Honesty**

A student who is academically dishonest is, by definition, not showing that the coursework has been learned, and that student is claiming an advantage not available to other students. The professor is responsible for measuring each student’s individual achievements and also for ensuring that all students compete on a level playing field. Thus, in our system, the professor has teaching, grading, and enforcement roles. You are expected to be familiar with the College's Policy on Academic Honesty, found in the catalog. What that means is: If you are charged with an offense, pleading ignorance of the rules will not help you. Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Penalties and/or disciplinary proceedings may be initiated by College System officials against a student accused of scholastic dishonesty. “Scholastic dishonesty”: includes, but is not limited to, cheating on a test, plagiarism, and collusion.

**Cheating on a test includes:**

- Copying from another students' test paper;
• Using materials not authorized by the person giving the test;
• Collaborating with another student during a test without authorization;
• Knowingly using, buying, selling, stealing, transporting, or soliciting in whole or part the contents of a test that has not been administered;
• Bribing another person to obtain a test that is to be administered.

Plagiarism means the appropriation of another’s work and the unacknowledged incorporation of that work in one’s own written work offered for credit.

Collusion means the unauthorized collaboration with another person in preparing written work offered for credit. Possible punishments for academic dishonesty may include a grade of 0 or F in the particular assignment, failure in the course, and/or recommendation for probation or dismissal from the College System. (See the Student Handbook)

HCC Policy Statements
Class Attendance – It is important that you log into Eagle online on the first day of the semester and then on a daily basis! Participating regularly is the best way to succeed in this class. Research has shown that the single most important factor in student success is attendance. Class attendance is checked, tracked, and reported to the business office. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences.

HCC Course Withdrawal Policy
Beginning Fall 2007, the State of Texas imposes penalties on students who drop courses excessively. Students are limited to no more than SIX total course withdrawals throughout their educational career at a Texas public college or university.
To help you avoid having to drop/withdraw from any class, contact your DE professor regarding your academic performance. You may also want to contact your DE counselor to learn about helpful HCC resources (e.g. online tutoring, child care, financial aid, job placement, etc.).

How to Drop
• If a student decides to drop or withdraw from a class upon careful review of other options, the student can drop online prior to the deadline through their HCC Student Center.
  https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCd=ENG
• HCC and/or instructors may drop students for excessive absences without notification (see Class Attendance below).

If you do not withdraw before the deadline, you will receive the grade that you are making in the class as your final grade.

Class Attendance
As stated in the HCC Catalog, all students are expected to attend classes regularly. Although it is the responsibility of the student to drop a course for non-attendance, the instructor also has the authority to block a student from accessing Eagle online, and/or to drop a student for excessive absences or failure to participate regularly.
**International Students**
Receiving a W in a course may affect the status of your student Visa. Once a W is given for the course, it will not be changed to an F because of the visa consideration. Since January 1, 2003, international students are restricted in the number of distance education courses that they may take during each semester. ONLY ONE online/distance education class may be counted towards the enrollment requirement for International Students per semester. Please contact the International Student Office at 713-718-8520 if you have any questions about your visa status and other transfer issues.

**Repeat Course Fee**
The State of Texas encourages students to complete college without having to repeat failed classes. To increase student success, students who repeat the same course more than twice, are required to pay extra tuition. The purpose of this extra tuition fee is to encourage students to pass their courses and to graduate. Effective fall 2006, HCC will charge a higher tuition rate to students registering the third or subsequent time for a course. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as early as possible about your study habits, reading and writing homework, test taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available.

**Classroom Behavior**
As your professor and as a student in this class, it is our shared responsibility to develop and maintain a positive learning environment for everyone. Your professor takes this responsibility very seriously and will inform members of the class if their behavior makes it difficult for him/her to carry out this task. As a fellow learner, you are asked to respect the learning needs of your classmates and assist your professor achieve this critical goal.

**Use of Course Contents**
As a student active in the learning community of this course, it is your responsibility to be respectful of the learning tools provided to you by your professor. To show respect, you will not copy or share the contents with others unless you receive permission from the professor.

**Instructor Requirements**
As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through activities, study tools, and assignments
- Inform students of policies such as attendance, withdrawal, and assessments
- Provide the course outline and calendar which will include all the deadlines for the assignments
- Arrange to meet with individual students before and after class as required

**To be successful in this class, it is the student’s responsibility to:**

- Participate in course activities
• Read and comprehend the instructional materials (lab manual and lab tools provided on Blackboard)
• Complete the required assignments and exams
• Ask for help when there is a question or problem
• Keep copies of all paperwork, including the syllabus, handouts and all assignments
• Complete the field study with a 70% passing score