

Central College

BIOL 2402 Anatomy and Physiology II CRN 59595 | Fall 2013 Central Campus - Room LHSB 315 | 5:30 - 8:30 pm | Tues Room LHSB 316 | 5:30 - 8:30 pm | Thurs
3 hours of lecture, 3 hours of lab / 96 hours per semester / 16 weeks

Instructor Information

Instructor: Lawrence Wald, B.A., D.C.

Instructor Contact Information: <u>lawrence.wald@hccs.edu</u>

Office Location: Biology office: Room LHSB 401; (713) 718-6050 Please feel free to contact me concerning any problems that you are experiencing in this course. You do not need to wait until you have received a poor grade before asking for my assistance. Your performance in my class is very important to me. I am available to hear your concerns and just to discuss course topics.

Course Information

Course Description: Continuation of BIOL 2401 including the circulatory, respiratory, digestive, excretory, reproductive and endocrine systems. Core Curriculum Course

Core Curriculum Statement: Credit: 4 (3 lecture/3 lab)

The objective of the natural sciences in the core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences and to enable the student to understand the basis for building and testing theories.

Course Prerequisites:

- College-level reading (or take GUST 0342)
- College-level writing (or take ENGL 0310/0349)
- BIOL 2401

Course Goal: HCCS' goal is that all students become competent in reading, writing, computer literacy, listening and speaking.

Student Learning Outcomes & Objectives:

- 1. Students will be able to analyze the circulatory systems (including lymphatic and immune systems) and their components.
- 2. Students will be able to understand hormonal control of body systems and homeostasis.
- 3. Students will be able to analyze the histology; gross anatomy and the physiology of the respiratory and urinary systems applying the structural and physiological linkage of these systems with the cardiovascular system.

- 4. Students will be able to analyze, understand and explain the structure and function of the digestive system correlating it with metabolism.
- 5. Students will be able to analyze and evaluate the structure, function and regulation of the reproductive system.
- 6. Students will be able to apply the knowledge gained in lab utilizing anatomical models and physiology experiments.
- 7. Students will utilize online interactive evaluation tools to gauge their understanding of key anatomical and physiological concepts prior to lecture/examinations/quizzes where applicable.

Instruction Information

Instructional Materials:

Lecture:

Textbook: Martini FH, Nath JL, Bartholomew EF, <u>Fundamentals of</u> <u>Anatomy and Physiology</u>, 9th edition. Pearson Benjamin Cummings: San Francisco, 2012

Eagle Online: All lecture notes, powerpoints, study guides, illustrations, upto-date information can be accessed online. "Eagle" is your direct link to all relevant information presented in this course. (Please use it often!)

The following web address will take you to "Eagle's" login page: https://hccs1.mrooms3.net/login/index.php

If this your first time using "Eagle", your username is your HCC User ID. [For example: W0034567]

The default Eagle Online password at the beginning of the term for new accounts is: "distance". You will be required to change your password when you first log in.

Mastering A & P: The biology department requires chapter assignments from the textbook publisher's website. As well as the mandatory assignments, the web site has many valuable learning aides such as chapter pre-tests, quizzes, videos, and activities.

You will need an access code to enter the website. A code comes free with the textbook. It can also be purchased without the textbook.

Web address: Course ID code: www.masteringaandp.com FALL2013WALD59595

Laboratory:

Lab Book: J. Wagle, Ed. <u>Human</u> <u>Anatomy & Physiology II BIOL 2402 Lab Manual</u>, 3rd edition, 2010.

HCC Biology Department Online Study Pages: Excellent interactive Biology department laboratory study pages can be accessed at the following link: <u>www.hccs.edu/biologylabs</u>

16 Week Calendar:

WEEK	DATE	ТОРІС	Text Chapter or
		lutus dustis pu Sullahus	Lab Manual Exercise
1	Aug 27	Introduction; Syllabus Lect: Blood	Chapter 19
	Aug 29	Lab: The Blood	Exercise 2 (Due)
2	Sep 3	Lect: The Heart	Chapter 20
	Sep 5	Lab: The Heart; Electrocardiography	Exercises 3 & 4 (Due)
3	Sep 10	Lect: Blood Vessels and Circulation	Chapter 21
	Sep 12	Lab: Blood Vessels	Exercise 5 (Due)
4	Sep 17	Lect: Lecture Exam 1	Chapters 19, 20, 21
	Sep 19	Lab: The Lymphatic System	Exercise 6 (Due)
5	Sep 24	Lect: The Lymphatic System and Immunity	Chapter 22
	Sep 26	Lab: The Respiratory System	Exercise 7 (Due)
6	Oct 1	Lect: The Respiratory System	Chapter 23
	Oct 3	Lab: Review	Lab Midterm Practical Study Guide
7	Oct 8	Lect: The Urinary System	Chapter 26 Exercises 2, 3, 4, 5, 6,
	Oct 10	Lab: Laboratory Midterm Practical	7
8	Oct 15	Lect: Lecture Exam 2	Chapters 22, 23, 26
	Oct 17	Lab: The Urinary System Urinalysis	Exercise 9 (Due) Exercise 10 (Due)
	Oct 22	Lect: The Digestive System	Chapter 24
9	000122	Lect: The Digestive System (cont)	Chapter 24 (cont)
	Oct 24	Lab: The Digestive System	Exercise 8
10	Oct 29	Lect: Metabolism & Energetics	Chapter 25
	Oct 31	Lab: The Digestive System (cont)	Exercise 8 (Due)
11	Nov 5	Lect: Fluid, Electrolyte, and Acid–Base Balance	Chapter 27
	Nov 7	Lab: The Endocrine System	Exercise 1 (Due)
12	Nov 12	Lect: Lecture Exam 3	Chapters 24, 25, 27
	Nov 14	Lab: The Male Reproductive System The Female Reproductive System	Exercise 12 (Due) Exercise 13 (Due)
13	Nov 19	Lect: The Endocrine System	Chapter 18
	Nov 21	Lab: The Female Reproductive System	Lab Final Practical Study Guide
14	Nov 26	Lect: The Reproductive System	Chapter 28

	Nov 28	Lab: Thanksgiving Holiday	
15	Dec 3	Lect: Development and Inheritance	Chapter 29
		Lab: Review	Exercises 1, 8, 9, 10,
	Dec 5	Laboratory Final Practical	11, 12
16		Lecture Exam 4 (Final)	Chapters 18, 28, 29
	Dec 10	Mandatory Department Final	Comprehensive

Instructional Methods:

As an instructor, I want my students to be successful. I feel that it is my responsibility to provide you with a framework in which to build the vast knowledge concerning the structure and function of the human body.

As a health care provider, I want my students to experience, as I do, the realization of the miracle of the human body. To achieve these goals, I provide lecture notes and study guides which allow you to focus on my powerpoint presentations.

As a student wanting to learn about the human body, it is your responsibility to read the textbook, submit the lab reports when required, study for the exams, participate in laboratory exercises, attend class, and enjoy yourself while experiencing the human body.

As I believe that engaging the students in the learning is essential for teaching to be effective, you will spend the majority of lab time involved in collaborative efforts and discussions with your classmates.

Instructor Responsibilities:

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 class activities, discussions, and lectures
- Inform students of policies such as attendance, withdrawal, tardiness and make-up exams
- Provide the course outline and class calendar which will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

Student Responsibilities:

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

- Attend class and participate in class discussions and activities
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts and all assignments

Assessment Information

Student Assessments: Assignments have been developed that will help assess your mastery of the various topics. Students will be required to successfully

complete the following, according to the HCC grading scale.

- Lecture Exam 1 Seventy-five (75) questions will be primarily multiple choice, but may also include true or false, matching, and picture identification. They will cover Chapters 19, 20, and 21. Questions will include knowledge questions, identification questions, comprehension questions, and analysis questions.
- Lecture Exam 2 Seventy-five (75) questions will be primarily multiple choice, but may also include true or false, matching, and picture identification. They will cover Chapters 22, 23, and 26. Questions types will include knowledge questions, identification questions, comprehension questions, and analysis questions.
- <u>Lecture Exam 3</u> Seventy-five (75) questions will be primarily multiple choice, but may also include true or false, matching, and picture identification. They will cover Chapters 24, 25, and 27. Questions types will include knowledge questions, identification questions, comprehension questions, and analysis questions.
- Lecture Exam 4 (Final) Seventy-five (75) questions will be primarily multiple choice, but may also include true or false, matching, and picture identification. They will cover Chapters 18, 28, and 29. Questions types will include knowledge questions, identification questions, comprehension questions, and analysis questions.
- <u>Mandatory System-wide Departmental Final</u> Fifty (50) multiple choice questions will be chosen by a system-wide panel. The exam will be comprehensive covering all previous course-work.
- <u>Laboratory Midterm Practical</u> Fifty (50) multiple choice identification questions scattered about 25 stations. They will cover Exercises 2, 3, 4, 5, 6, and 7.
- <u>Laboratory Final Practical</u> Fifty (50) multiple choice identification questions scattered about 25 stations. They will cover Exercises 1, 8, 9, 10, 11, and 12.
- <u>Laboratory Reports</u> Written reports at the end of each lab exercise (including pre-labs) are due the day of the exercise, unless notified.

<u>Mastering Biology Assignments</u> There are twelve assignments, each corresponding to chapters in our textbook that will be covered in this course. Assignments contain 30 - 40 questions that are taken online. The assignments will be due the midnight before the lecture exam covering that material

Weighting of Assessments:

Lecture Exams, Total57.7% of your final grade (14.4% for each exam)Lab Practicals19.2% of your final grade (9.6% for each practical)Lab Reports11.5% of your final grade (0.7% for each report)

Mastering Assignments11.5% of your final grade (0.157 for each correct answer)Extra Credit1.9%

Grading of Assessments:

- Lecture Exams: Each lecture exam is worth 75 points. Each correct answer is worth one point.
- Laboratory Practicals: Each practical is worth 50 points. Each correct answer is worth one point.
- Lab Reports: All of the 12 lab reports together are worth 60 points. Each report (including pre-lab) turned in at the at the end of the class period the exercise is assigned (*see 16 week calendar*) can receive up to five points. The reports will be graded upon completeness. Also a half point will be deducted for each class period the report is overdue [e.g. a report turned in at the end of the due date, can receive 5 points; A report turned in during the next lecture date, can only receive a maximum of 4.5 points; A report turned in during the following lab period, can only receive a maximum of 4 points].
- Mastering Assignments: All of the 12 Mastering Assignments collectively are worth 60 points. Each question in a chapter assignment is worth one point. You will have two opportunities to answer a question correctly. However, each additional attempt is penalized ½ point. [Correctly answering a question on the first try = 1 point; on the second try = .5 points; on the third try = 0 points]
- HCC Departmental Final: The department final will be considered extra credit. For each question answered correctly, an additional 0.2 points will be added to your overall point total, with a potential of 10 points to be earned.
- **Final Grade Calculation:** There is a total of 540 points to be earned during the semester. Your final grade percentage will be determined by adding all points earned from the assessments (plus extra credit) divided by 520.

Your final letter grade will be based upon the HCC grading scale.

Final Grade Percentage	Final Grade	Points Earned
90 - 100	А	466 - 520
80 - 89	В	414 - 465
70 - 79	С	362 - 476
60 - 69	D	310 - 361
0 - 59	F	0 - 309

H.C.C. Grading Scale:

HCC Policy Statements

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 Central Campus, Room LHSB 106, (713) 718-6164.

Academic Honesty:

A student who is academically dishonest is, by definition, not showing that the course-work has been learned, and that student is claiming an advantage not available to other students. The instructor 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 instructor has teaching, grading, and enforcement roles. You are expected to be familiar with the University'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.

<u>Plagiarism</u> means the appropriation of another's work and the unacknowledged incorporation of that work in one's own written work offered for credit.

<u>Collusion</u> 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)

Class Attendance:

It is important that you come to class! Attending class regularly is the best way to succeed in this class. Research has shown that the single most important factor in student success is attendance. Simply put, going to class greatly increases your ability to succeed. You are expected to attend all lecture and labs regularly. You are responsible for materials covered during your absences. Class attendance is checked daily. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences.

If you are not attending class, you are not learning the information. As the information that is discussed in class is important for your career, students may be dropped from a course after accumulating absences in excess of 12.5% hours of instruction. The <u>twelve</u> hours of class time would include any total classes missed or for excessive tardiness or leaving class early.

You may decide NOT to come to class for whatever reason. As an adult making the decision not to attend, you do not have to notify the instructor prior to missing a class. However, if this happens too many times, you may suddenly find that you have "lost" the class.

Poor attendance records tend to correlate with poor grades. If you miss any class, including the first week, you are responsible for all material missed. It is a good idea to find a friend or a buddy in class who would be willing to share class notes or discussion or be able to hand in paper if you unavoidably miss a class.

Class attendance equals class success.

Course Withdrawal Policy:

An instructor will no longer give any student a grade of "W" after the official drop date (November 1, 4:30 pm). The Texas Legislature passed a law limiting first time entering freshman to no more than **six** total course withdrawals **throughout** their educational career in obtaining a certificate and/or degree.

Course Repeat Policy:

Students who repeat a course for **a third or more time** will be charged a tuition/fee increase of \$50/credit/hour at HCC and other Texas public colleges and universities. Please ask your instructor/counselor about opportunities for tutoring/other assistance prior to considering course withdrawal or if you are not receiving passing grades.

Classroom Behavior:

As your instructor and as a student in this class, it is our shared responsibility to develop and maintain a positive learning environment for everyone. Your instructor 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 instructor achieve this critical goal.

Use of Camera and/or Recording Devices:

As a student active in the learning community of this course, it is your responsibility to be respectful of the learning atmosphere in your classroom. To show respect of your fellow students and instructor, you will turn off your phone and other electronic devices, and will not use these devices in the classroom unless you receive permission from the instructor.

Use of recording devices, including camera phones and tape recorders, is prohibited in classrooms, laboratories, faculty offices, and other locations where instruction, tutoring, or testing occurs. Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations