

Biology 2402 – Sections A1, A2 & A4
Blinn College – Bryan Campus
Course Information Sheet
Fall 2009

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Office Hours

M, W 1:30 – 2:45 PM

T, R 2:45 – 3:15 PM

or by appointment

COURSE DESCRIPTION

Biology 2402 Anatomy & Physiology II is the **second** course in a 2-semester sequence which examines the systems of the human body using an integrated approach. This course is a continuation of the principles of structure and function of the human body. The major areas of study will be those not covered in Anatomy & Physiology I, including the structure and function of the special senses, endocrine system, cardiovascular system, lymphatic system, immune system, respiratory system, digestive system, urinary system, and the reproductive system. Laboratory exercises are to enhance the students' appreciation and comprehension of the biological concepts of structure and function of the human body. Cat dissections are a mandatory and an integral part of the lab curriculum. Prerequisite: Biol 2401 or approval of the division chair. 3 class hours and 3 laboratory hours per week. Credit: 4 semester hours.

CORE CURRICULUM COURSE

This is a course in the 42-hour Core Curriculum of Blinn College. As such, students will develop proficiency in appropriate intellectual competencies, exemplary educational objectives and general perspectives. The URL of the Blinn College core curriculum web site is:

<http://www.blinn.edu/corecurriculum/>

COURSE OBJECTIVES AND STUDENT LEARNING OUTCOMES

These learning outcomes and course objectives will include the student demonstrating competence in the following areas:

Lecture Objectives

1. Explain the principle of complementarity, homeostasis and feedback mechanisms.
2. Describe special senses histology, anatomy and function.
3. Explain the major endocrine organs and hormone actions.
4. Identify and discuss anatomical components of the cardiovascular system and their functional roles in transport and hemodynamics.
5. Identify and discuss anatomical components of the lymphatic system and their functional roles in fluid dynamics and immunity.
6. Identify and discuss anatomical components of the respiratory system and their functional roles in ventilation, external and internal respiration.
7. Identify and discuss anatomical components of the digestive system and their functional roles in digestion, absorption, metabolism and elimination.
8. Identify and discuss anatomical components of the urinary system and their functional roles in urinary concentration, conservation of water and electrolytes, and acid/base balance.
9. Identify and discuss anatomical components and functional roles of the reproductive system, and communicate effectively an understanding of pertinent biological processes or topics.

Laboratory Objectives

1. Identify and discuss major features of special sense using dissected specimens, models or slides.
2. Identify and discuss endocrine organs using dissected specimens, models or slides.
3. Identify homeostatic feedback mechanisms and effects of endocrine hormones.
4. Identify components of cardiovascular system from slides, specimens or models. Describe their roles in hemodynamics using various equipment and computer models.
5. Identify components of lymphatic and immune systems from slides, specimens or models. Describe their roles in fluid transport and immunity.
6. Identify components of respiratory system from slides, specimens or models, and describe their roles in ventilation, external and internal respiration using various equipment or computer models.
7. Identify components of digestive system from slides, specimens or models, and describe their roles in digestion, absorption, metabolism and elimination.
8. Identify components of urinary system from slides, specimens or models. Describe their roles in fluid dynamics, water & electrolyte concentration and acid/base balance using various equipment or computer models.
9. Identify and discuss functional roles for components of reproductive systems using slides, specimens or models.

REQUIRED TEXTBOOKS AND OTHER MATERIALS

- *Hole's Human Anatomy and Physiology*, 11th Ed. Shier, Butler, Lewis. McGraw Hill, 2007.
- *Laboratory Manual, Hole's Human Anatomy and Physiology*, 11th edition, cat version. Shier, Butler, Lewis. McGraw Hill, 2007.
- *MediaPhys3.0 (An Introduction to Human Anatomy), Anatomy Revealed, and Ph.I.L.S. (Physiology Interactive Lab Simulations)*. All are available through McGraw Hill, and packaged together with the text and lab book in Blinn's bookstore.
- ARIS Website <http://www.aris.mhhe.com> has reviews for this text. This is an important learning resource that includes online quizzes, flashcards, tutorials etc that will help you immensely with your exams.
- Optional references: Study guide and/or Coloring Book to accompany text, Gray's Anatomy.
- **Angel/eCampus** is an online classroom tool. To log in, go to <http://ecampus.blinn.edu> & follow directions given. **PLEASE** use the computers **on campus** to access eCampus if needed at the Library, Learning Center, and H building. From the Course home page, you have several learning modules, each of which has the lecture PowerPoint, pertinent information for labs, Aris, A&P Revealed, etc. Power points are huge, so please print as handouts with several per page (right click on slide, choose **print options**, print as **handout**, choose number per page). You are charged for printing on campus.
- **My PowerPoint slides are not a substitute for the text!** They are a guide for lecture. Actively listen and take notes, use them to review the text.

➤ **eCampus URL:** <http://ecampus.blinn.edu>

➤ **Student E-mails:** Students are assigned an E-mail address that must be checked regularly for official Blinn communications and course information. The address is of the form:

Firstname.LastnameLast2digitsBlinnID@buc.blinn.edu

Information about accessing this account can be found at:

<http://www.blinn.edu/acadtech/studentemail/>

CLASS POLICIES

Attendance: Blinn College believes that class attendance is **essential** for student success; students are expected to report **promptly and regularly** to all their classes. Each class meeting builds the foundation for subsequent class meetings. Faculty will require students to attend class regularly and will keep a record of attendance from the first day of class and/or the first day the student's name appears on the roster through final examinations. When a student has **one week's** worth of unexcused absences during the semester, the faculty member will report the student's unexcused absences in BORIS. The student will receive a letter and/or an emailed warning from the Blinn's registrar that upon one more week of unexcused absence, the student will be dropped from all classes in which the unexcused absences are reported. If the student subsequently accumulates **two week's** worth of unexcused absences, he/she will be **administratively withdrawn** from the class. **Missing lecture or lab or both will count as one absence.**

There are two forms of excused absence officially recognized by Blinn College: (1) Observance of religious **holy days:** The student should notify his/her instructor(s) not later than the **15th day** of the semester concerning the specific date(s) that the student will be absent for any religious holy day(s); and (2) Representing Blinn College at an official institutional function. Other excuses will be considered on a case-by-case only with valid documentation.

Latecomers and those who leave class early without a valid excuse will be **marked absent**.

Dropping this class: If a student chooses to drop this course, it is that student's responsibility to complete a drop order at the Office of Enrollment Services. Failure to do so could result in a grade of F in the course. **The last day to withdraw with a "W" is November 20th, 2009.**

Dishonesty Statement: Blinn College does not tolerate cheating, plagiarism or other acts of dishonesty. Definitions of these acts and procedures for dealing with them are described in "Scholastic Dishonesty" in the Blinn College Student Handbook, copies of which are available at the information desk in the administration building.

During testing, your access to any information of any kind (other than that is given by your instructor to you on your exam or answer sheet) is strictly prohibited. It is your responsibility before you take a test to see to it that all notes, handouts, practice exams, and books are placed out of your sight. The only materials allowed on your desk during tests are: the exam that you are taking, pencils/pens, eraser, and an answer sheet or scantron.

Failure to comply with this testing policy or with the Scholastic Dishonesty policy during a test results in a grade of zero on that test, and cannot be dropped.

Civility Statement: Members of the Blinn College community, which includes faculty, staff and students, are expected to act honestly and responsibly in all aspects of campus life. Blinn College holds all members accountable for their actions and words. Therefore, all members should commit themselves to behave in a manner that recognizes personal respect and demonstrates concern for the personal dignity, rights, and freedoms of every member of the College community, including respect for College property and the physical and intellectual property of others. Civility applies to attire as well as behavior. Please dress appropriately for the classroom and laboratory. Blinn College students are expected to dress following generally accepted community standards of neatness, cleanliness, modesty and good taste. Please refer to the student dress code as described in the Blinn College Student Handbook.

If a student is asked to leave the classroom because of uncivil behavior, the student may not return to that class until he or she arranges a conference with the instructor: It is the student's responsibility to arrange for this conference.

Safety: Safety is always important in science. We will be using expensive equipment and preserved specimens. Be aware of those around you, especially during dissection. If you are pregnant, or become pregnant during the semester, please let me know; formaldehyde is a teratogen, and is used in the preservation of specimens.

ADA Statement: Students needing special accommodation due to a disability must obtain authorization from the Disabilities Counseling Office in room 157 of the Blinn Science building.

The above requirements and policies are described in detail in the Blinn College Student Handbook which, by reference, is incorporated into this information. Please obtain and read.

Classroom Etiquette

1. Please be prepared to stay in class for the entire duration of the class period. On certain days when labs finish early, the remaining time will be used for continuing the lecture.
2. Bring both the textbook and the lab manual to class every day.
3. Don't eat or drink in classrooms or laboratories.
4. Turn off all cell phones, PDAs & other electronic devices, or switch them to silent mode.
5. Don't check emails, send text messages, or wear ear-phones during class.
6. You are allowed to bring electronic devices to class only for the purpose of taking notes and/or viewing downloaded class lectures. Any other use is strictly prohibited.
7. Don't talk during lecture, unless you are participating in a class discussion or asking a question.
8. Don't leave the classroom while taking an exam or a quiz. Lecture or lab quizzes and exams will not be given to latecomers.
9. I won't respond to student emails with questions to which the answers can be found in the CIS.
10. You are strongly encouraged to make a few friends in class with whom they can form study groups and/or rely on for getting important information given in class on the day you were absent. It is not my responsibility as an instructor to give students information about they missed in class due to an absence.

COURSE REQUIREMENTS AND CRITERIA FOR GRADING

Course Item	Maximum Points
4 Lecture Exams @ 100 points each	400
2 Lab exams @ 75 points each	150
Comprehensive Final Lecture Exam	200
Lab Assignments & Class Participation	100
Lecture and Lab Quizzes	80
Critical Thinking Test	70
Total points	1000

LECTURE EXAMS and COMPREHENSIVE FINAL EXAM

1. **Four** lecture exams will given, each worth 100 points.
2. Lecture exams will include multiple choice questions, short-answer questions, fill-in-the-blanks, and labeling diagrams. All exams will be closed-book.
3. A 200-point comprehensive (cumulative), multiple-choice **final lecture exam** will be given at the end of the semester. **The final exam cannot be dropped.**
4. **There are no "make-up" lecture exams.** If you miss a lecture exam, you will receive a grade of 0 (zero) for that exam.
5. You can use the % grade of your final exam to replace the lowest grade of your lecture exams. This substitution will be allowed only for one of your lecture exams, including any missed lecture exams.

LAB EXAMS

1. **Three** 75-point lab exams will be given. Only the best **two** will be counted.
2. There will be no make-up for missed lab exams. The missed exam will be the drop grade.

LECTURE QUIZZES

1. **Eight** lecture quizzes will be given either as paper quizzes or online using eCampus.
2. The quiz will be on the material covered in lecture.
3. Each quiz will be worth 10 points.
4. Online quizzes will follow strict deadlines, which will not be extended.

CRITICAL THINKING TEST

1. A written critical-thinking test will be conducted at the end of the semester.
2. The syllabus for the critical thinking test can be found on eCampus.

LABORATORY WORK

1. **22 – 24** lab assignments will be given, and the best **20** grades will be counted.
2. Lab exercises are to be completed during the lab period and assignments are to be turned in at the end of the period or as instructed.
3. For the most part, laboratory work will be assigned a maximum grade of 5 points. In order to receive credit for lab assignments, students must have signed the sign-up sheet at the end of the lab period. No signature, no points. Students will be allowed to sign the sign-up sheet only after they have completed and turned in the lab work by the end of the lab period.
4. Additional deductions will be taken for incomplete work and or failure to demonstrate general competency of the assigned material.
5. Late assignments will not be accepted. There will be no makeup for missed labs.
6. Only missed labs with valid excused absences can be used as drop grades.

LAB PREPARATION

1. Before coming to lab, you should read the laboratory modules to be performed in lab that day. This will help you to more efficiently budget your time.
2. Lab-work turned in should either be written on the pages of the lab book, or photocopies of the same. Lab sheets must be **complete** to get full credit.
3. **Cat dissections** are mandatory. Let your instructor know if you are or become pregnant during the semester, as cats are preserved in formalin, a teratogen.

CRITERIA FOR GRADING:

Your final score is based on 1000 points and will be calculated by taking the sum of your earned points (your grades). Your final score will be **rounded to the nearest whole number** before your grade is calculated as per the table below. Some illustrative examples are shown below. Do not base your performance on expectations of curving or extra credit points.

Points	≤ 599	600 – 699	700 – 799	800 – 899	≥ 900
Grade	F	D	C	B	A

Illustrative examples for grading

Final score	Rounded score	Grade
799.8	800	B
799.4	799	C
799.5	800	B

SCHEDULE FOR FINALS

Section	Date	Time	Location
Section A1 (MW 10:35 – 1:15PM)	Friday, Dec 11 th	12:45 – 2:45PM	S212 (Lab)
Section A2 (MW 2:50 – 5:30PM)	Friday, Dec 11 th	3:15 – 5:15PM	S210 (Lec)
Section A4 (TR 12:00 – 2:40PM)	Tuesday Dec 15 th	12:45 – 2:45PM	S212 (Lab)

Tentative Class Schedule is on the next page