

BIO 160: Introduction to Anatomy and Physiology

Syllabus Spring 2007

Section 0448: MW 9:00-10:15am, DB 224

Instructor: Felicia T Brenoe

Telephone: 602.285.7610

Email: felicia.brenoe@pcmail.maricopa.edu

Office hours: M 10:30-12:30, W 10:30-12:30, R 10:30-12:30. Other times available upon request.

COURSE DESCRIPTION:

Principles of scientific method. Structural organization, homeostasis and control mechanisms of the body. Specific chemistry concepts. structure and function of the major systems of the body.

Objectives:

- Describe the structural organization of the body.
- Describe homeostasis and homeostatic control mechanisms
- Describe specific chemistry concepts of the body.
- Describe the structure and function of the integumentary system and body membranes
- Describe the structure and function of the skeletal system and joints
- Describe the structure and function of the muscular system
- Describe the structure and function of the nervous system
- Describe the structure and function of the endocrine system
- Describe the structure and function of the cardiovascular system
- Describe the structure and function of the lymphatic system and immunity
- Describe the structure and function of the respiratory system
- Describe the structure and function of the digestive system.
- Describe the structure and function of the urinary system
- Describe the structure and function of the reproductive system

REQUIRED TEXTBOOKS:

Essentials of Human Anatomy and Physiology by Elaine Marieb, 2005, eighth edition. The Benjamin/Cummings Publishing Company. (Available at PC Bookstore).

The A&P Coloring Workbook: A Complete Study Guide, by Elaine Marieb, 2005, eighth edition. The Benjamin/Cummings Publishing Company. (Available at PC Bookstore).

Always bring text to each scheduled lab!!!

LABORATORY MANUAL: Furnished by Biology Department in Lab.

GRADING:

1. There are points available for the course

Assignment	Number	Points	Total
Lecture Exams	5	100	500
Endocrine project	1	60	60
Body Worlds Assignment	1	50	50
Blood Pressure Worksheets	1	30	30
Clinical Research Paper	1	50	50
Workbook Assignments	10	5	50
Muscle Movement Quiz	1	15	15
Lab Practicals	4	100	400

TOTAL **1155**

2. The grade for the semester is determined by adding together all individual scores and dividing by total possible points to arrive at a percent score.

Percent	Letter Grade
90-100%	A
80-89%	B
70-79%	C
60-69%	D
59% or below	F

3. **Extra Credit.** There may be some extra credit assignments available throughout the semester. These assignments will for the most part be in the form of pop-quizzes at the beginning of lecture and if you are absent or late to class there is absolutely no makeup on these assignments.

ATTENDANCE POLICIES:

1. Students must be registered for both a lecture and a lab section concurrently. Anyone who is not registered cannot attend classes.
2. Daily attendance will be taken. An attendance sheet will be circulated at the beginning of the class. It is your responsibility to sign your name on the attendance sheet to be counted present for that day. Attendance may be used to determine borderline, end-of-the-semester grades.
3. Tardiness is rude and disruptive to your teacher and to the other students. There are no exceptions to this rule. If you know you will be late for class because of special circumstances please meet with me and make me aware of the situation.
4. According to class policy you are allowed 4 lecture absences and 1 laboratory absence throughout the semester. If you know ahead of time that you will be absent please contact me and make me aware of the situations. Some assignments are completed in class, there are not makeups on these assignments. If you miss class these assignments are still due on the day of the class or before, if you miss class you may make deliver your assignment to the biology department by 5pm that day.

Absences and tardiness in excess of the class policy will result in your withdrawal from the course.

5. If you miss your regularly scheduled lab, please make arrangements with a lab instructor to come to another lab that week covering the same topic. Please see your lab schedule for a complete list of lab times.

BIO 160 Lab schedule in DB109

Mon: 1:00-3:50pm (Brenoe)
Tue: 11:00pm-1:50pm (Brenoe)
7:00pm-9:50pm (Pardi)
Wed: 11:00pm-1:50pm (Rheinfelder)
7:00pm-9:50pm (Bell)
Thur: 7:00pm-9:50pm (Pardi)
Sat: 11:30pm-2:20pm (Bell)

CLASS ASSIGNMENTS

1. **Lecture Exams.** There are 5 lecture exams through the course of the semester, each worth 100 points. These exams are multiple choice, and you will receive a review sheet with each lecture notes package. The last exam, which is given during finals week, is not a comprehensive final but the last of the 5 exams.
2. **Endocrine Project.** When we work on the endocrine system, you will be assigned a hormone on which you will become an expert. You will work in a group with other students, and this 100 point project includes a written paper and an in-class presentation.
3. **Body Worlds.** This semester the Body Worlds 3 Exhibit is visiting Phoenix and as part of your coursework you will visit the exhibit and write a report on your experience and ethics in relation to this exhibit. In the first 2 weeks of the semester you will select one of 13 available dates and times that you would like to attend the exhibit. The cost of the exhibit is included in your course fees. **Be very careful when selecting your time of attending Body Worlds 3, we have to advance purchase these tickets and once you have selected your time-slot it cannot be changed.** The only way for you to make up the assignment would be to purchase your own ticket at your own cost. You will receive a separate handout with more information about this assignment
4. **Blood Pressure Worksheet.** This 30 point project is an in-class assignment that we complete when working on the cardiovascular system. What doesn't get completed in class will be assigned as homework.
5. **Clinical Research Paper.** Worth 50 points. During the course of the semester you will research a clinical topic of interest to you. It can be a subject matter that is relevant for your future career, or it can be an issue that affects you or somebody close to you. You will be asked to use quality references, and write a paper on the topic of your choice.
6. **Workbook Assignments.** In lab you will have a total of 50 points in mandatory exercises in your coloring workbook. In addition, I will recommend exercises for your for each chapter in lecture. These additional exercises are not for credit, but are rather given to you as learning tools only. You will also be given optional, but highly recommended, exercises from the review areas at the end of each chapter in your textbook.
7. **Muscle Movement Quiz.** This is a 15 point quiz in lab where your instructor will demonstrate movements and you name the movement, or the muscle used.
8. **Lab Practicals.** You will have 4 100 point multiple-choice exams in lab. These lab exams will focus exclusively on the anatomy and physiology covered in lab.

MAKEUP EXAMS AND LATE ASSIGNMENTS:

1. **Lecture:** Five (5) lecture exams will be given. Normally, **there are no makeups on exams.** If you for some very important reason have to miss an exam, let me know per phone or email as soon as possible. You have to notify me before normal class time in order for me to consider you for a makeup. Just failing to show up for an exam is not sufficient reason for a makeup. Nobody will be allowed more than one makeup exam during the course of the semester.

- 2. Laboratory:** Because of the heavy utilization of DB109, it is not possible to re-set lab exercises. If you miss your lab practical for a very important reason, and you contact me by phone or e-mail on the day of the missed lab to explain your absence, I will try to make special arrangements for you to make up the practical during another regularly scheduled lab practical (see lab schedule). No one will be allowed more than one make-up exam.
- 3. Assignments:** Both lab and lecture assignments are due on the day of the assignment, and late submissions of assignment will only be considered in the case of absolute emergencies. In lab there are absolutely no acceptance of late workbook assignments. In lecture, late assignments will be docked 10% per day they are late if they are accepted.

WITHDRAWALS:

1. The last day a student may withdraw from the course without my signature is Friday, March 2, 2007. The student must file the withdrawal form with Admissions.
2. The last day a student-initiated withdrawal (with my signature) is accepted is Monday, April 23, 2007.
3. If you quit attending class (miss more than 3 classes in a row), and do not contact me with other instructions, I will withdraw you.

STUDENT SERVICES

1. If you are aware of any physical or non-physical disability that may affect your performance in class, please inform me during the first week of class. Phoenix College's Special Services can provide for some of the special needs of disabled students. Special Services is located in the Learning Center Building; use the West entrance.
2. Phoenix College's **Math & Science Center** provides free tutoring, educational materials, computer-assisted instruction and student development workshops. The Math & Science Center is located East on the second floor of the Library. Bones and Lab models are also available for additional study outside your regularly scheduled laboratory.

ACADEMIC DISHONESTY and DISRUPTIVE BEHAVIOR

1. Academic dishonesty will not be tolerated in the classroom and will be dealt with according to the Phoenix College Student handbook. Academic dishonesty includes cheating and plagiarism, and will be reported to the Dean of instruction and Chair of the Biology Department. In addition, academic dishonesty will result in a score of 0 for the given assignment. Repeat academic dishonesty will result in a grade of "F" for the course.
2. Disruptive behavior includes harassment, inappropriate behavior, or unsafe behavior toward the instructor, other students, the classroom, or classroom materials and will be dealt with according to the Phoenix College Student handbook.

Date	Chapter	Lecture topic	Lab this week
W- Jan 17	1	Orientation to the Body	Skeleton
M- Jan 22	1	Orientation to the Body	Skeleton
W- Jan 24	3	Cells and Tissues	
M- Jan 29	4	Skin and Membranes	Muscles
M- Feb 05	-	EXAM#1 (Chap 1, 3, 4)	
W- Feb 07	5	Skeletal System	Muscles (Quiz)
M- Feb 12	6	Muscular System	Lab Practical #1
W- Feb 14	6	Muscular System	
M- Feb 19	-	NO CLASS	Brain
W- Feb 21	-	EXAM #2 (Chap 5, 6)	
M- Feb 26	7	Nervous System	Eye and Ear
W- Feb 28	7	Nervous System	
M- Mar 05	7	Nervous System	Lab Practical #2
W- Mar 07	9	Endocrine System (project due)	
M- Mar 12	-	SPRING BREAK	
W- Mar 14	-	SPRING BREAK	
M- Mar 19	9	Endocrine System (project due)	Blood
W- Mar 21	-	EXAM #3 (Chap 7, 9)	
M- Mar 26	10	Blood	Heart
W- Mar 28	11	Blood/Circulatory System	
M- Apr 02	11	Circulatory System	Arteries & Veins
W- Apr 04	13	Circulatory System (blood pressure)	
M- Apr 09	13	Respiratory System	Lab Practical #3
W- Apr 11	13	Respiratory System	
M- Apr 16	-	Exam #4 (Chap 10,11,13)	Digestive &Respiratory
W- Apr 18	14	Digestive System	
M- Apr 23	14	Digestive System	Urinary & Reproductive
W- Apr 25	15	Urinary System	
M- Apr 30	16	Reproductive System	Lab Practical #4
R- May 02	16	Reproductive System	
R- May 7	9-10:50am	EXAM#5 (Chap 14,15,16)	

For a more detailed outline of lab activities, please see separate lab schedule

Course content may vary from this outline to meet the needs of this particular group.