

BIOL 2401.624
Anatomy and Physiology I Spring 2012

Instructor: C. Stacey **Office:** WH 130 **Phone:** 335-6543
Email address: cstacey@odessa.edu
Office Hours: By appointment
Section Name : BIOL_2401_4
Start Date : 01/17/2012
End Date : 05/11/2012
Modality : Web Enhanced
Credits : 4

Course goals: This is the first semester of a two-semester course in which anatomy and physiology are integrally presented. Students learn anatomic and physiologic terminology, the principles of the relationships between form and function and basic mathematical calculations converting between the metric and English systems of measurement. Students also learn specific information about and concepts of basic chemistry, cell structure and chemistry, cell reproduction and tissue structure. The anatomy and physiology of four of the body's 11 systems are also presented. In laboratory investigations students acquire knowledge about bones, muscular function and microscopic examination of tissues. Lab fee is required.

Prerequisites/Corequisites: Prerequisites: Pass reading on THEA or COMPASS and be eligible for College Algebra by passing math on THEA or COMPASS or by passing the developmental math sequence. Corequisite: HPRS 1106 (or consent of department chair) and one hour a week in Synapse Tutorial Lab required.

Scans: 1, 3, 6, 9

Course Objectives: 1. Learner will be able to recognize and use the language and mathematical conversions required for exploration in the scientific and medical fields.

2. Learner will be able to identify the molecules that are the building blocks of the human body.

3. Learner will learn the basic chemistry needed to conceptualize the inner workings of the body's organ systems.

4. Learner will be able to identify the activities of various cellular structures responsible for maintaining life.

5. Learner will be able to identify the structures and functions of the first four organ systems, as well as how each system interacts with the others.

Required Books: Lecture Textbook: *Human Anatomy & Physiology*, 8th ed., by Elaine N. Marieb.

Lab Manual: *Human Anatomy and Physiology Laboratory Manual*, 9th ed. (Main Version), Marieb

Grading and evaluation:

Lecture Exams	(400 pts)	
Final Exam	(150 pts)	70%
Synapse		5%
Laboratory		25%

Grades will be based on a percentile scale. At the end of the semester, earned points will be divided by the total number of available points. The lecture percentile will be multiplied by 70% and the laboratory percentile by 25% and the synapse percentile by 5%. The resulting percentiles will be added together to compute the final average percentile score. Lab grades will be combined with lecture grades for the final reported class grade. The student is responsible for keeping their own grades.

A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, F = Below 60%

Attendance is required in all lecture periods. A tardy will be recorded as an absence. Three or more absences will affect the participation/attendance grade, which I will be adding to the total points at the end of the semester.

Make-ups: There will be no make-ups for lecture exams during the semester. If it is known prior to a lab practical that it will be missed, arrangements should be made to take the practical during another lab. Prior permission of all involved instructors must be obtained.

Name: _____

Lecture Exam 1 _____
Exam 2 _____
Exam 3 _____
Exam 4 _____

Lab Practical I _____
Practical II _____
Practical III _____
Practical IV _____
Practical V _____

Tutor Lab Requirement: Students are required to spend at least one hour per week in the tutor lab which is called the Synapse (WH117). Attendance and assignments will determine the tutor lab points. Student I.D. is required for participation in the Synapse.

Special Needs: Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library): The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the ["Ask a Librarian"](#) service provide additional help.

Student E-mail: Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal: Odessa College uses the Student Portal found on the OC Homepage

Technical Support: For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies: For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or students' and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).

Academic integrity: Cheating in any form will not be tolerated. The first offense will result in a grade of zero for that assignment. Any subsequent offense will result in expulsion from the course with an "F".

Additional information:

- 1. The last day to drop with a "W" is Friday, April 13, 2012**
- 2. Cell phone and pagers disrupt the class; therefore, they must be turned off during class.**

Tentative Lecture Schedule

Date	Topic
Jan. 16	No Classes (MLK Holiday)
18	Intro. to Class, Chapter 1: The human body
25	Chapter 2: Basic Chemistry
Feb. 01	Basic Chemistry cont., Chapter 3: Cells
08	Exam 1: (Ch. 1-3) Chapter 4: Tissues
15	Chapter 5: Integumentary System
22	Chapter 6: Bones and Skeletal Tissues
29	Exam 2: (Ch. 4-6) Chapter 8: Joints
15	Chapter 9: Muscles and Muscle Tissues
Mar. 07	Muscles and muscle Tissue (cont.)
12-17	No Classes (Spring Break)
21	Chapter 11: Nervous System and Tissues
28	Central Nervous System cont.
Apr. 04	Exam 3: (Ch. 8, 9, & 11) Chapter 12: Central Nervous System
11	Chapter 13: Peripheral Nervous System
18	Chapter 14: Autonomic Nervous System, Chapter 15: Special Senses Review for final exam
25	Exam 4: (Ch. 12-15)
May 02	Comprehensive Make-up exam
09	Final Exam: Wednesday, 6:00 pm - 8:30 pm, WH 109

Tentative Lab Schedule

Policies: Five equally weighted lab practical examinations will be given. The average of these exams will count as a portion of the total Anatomy and Physiology I grade, which accounts for approximately 28% of the final grade.

The laboratory portion of Anatomy and Physiology is designed to provide a "hands-on" learning experience; therefore, participation in all laboratory periods is necessary to fully meet course requirements. Excessive absences will have a direct impact on your final lab grade. Due to the seating capacity in the laboratory, students must attend the lab section for which they are registered. Due to the extensive set up required for lab practical exams, there can be **no make-ups** after the week of the exam.

Cell phones and other electronic equipment **WILL NOT** be allowed in the lab and must be **TURNED OFF**.

Academic dishonesty of any form **will not** be tolerated. If you are caught cheating you will receive a zero for that assignment. A second offense will result in expulsion from the course with a grade of "F".

<u>Week of:</u>	<u>Topic</u>
Jan 16	No Lab – MLK Holiday
23	Synapse Orientation; Anatomical Orientation, Microscope
30	Chemistry
Feb 6	Practical 1 , Cell, Mitosis
13	Histology Part 1
20	Histology Part 2
27	Practical 2 ; Axial Skeleton
March 5	Appendicular Skeleton
12	Spring Break
19	Practical 3 ; Metrics
26	Muscles
April 2	Muscles
9	Practical 4 ; Central Nervous System
16	Peripheral Nervous System,
23	Special Senses
30	Practical 5