

BIOL 2401
Anatomy and Physiology I
Fall, 2012

Course Duration	Aug 27 – Dec 10, 2012
Modality	Web enhanced
Instructor	JoAnna Hernandez
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Course Description: 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: 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).

SCANS: 1,3,6,9

Course objectives:

1. The student will be able to recognize and use the language and mathematical conversions required for exploration in the scientific and medical fields.
2. The student will be able to identify the molecules that are the building blocks of the human body.
3. The student will learn the basic chemistry needed to conceptualize the inner workings of the body's organ systems.
4. The student will be able to identify the activities of various cellular structures responsible for maintaining life.
5. The student 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:

Textbook: *Human Anatomy & Physiology*, 9th ed., by Elaine N. Marieb.

Lab Manual: *Human Anatomy & Physiology Laboratory Manual*, 9th ed., by Elaine N. Marieb

Grading and evaluation:

Lecture Exams	(400 pts)
Final Exam	(200 pts)
Synapse Tutor Lab	(50 pts)
Laboratory Practicals	(250 pts)
Extra Credit	(40pts)

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 and multiplied by 100 to give a final average percentile score.

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

All Grades will be rounded to the nearest whole number. Lab grades will be combined with lecture grades for the final reported class grade. The student is responsible for keeping their own grades. Attendance is required in all lecture and lab periods. A tardy will be recorded as an absence. Three or more absences may result in a lower grade.

Make-up Exam Policy:

1. Each student will be allowed ONLY ONE make-up exam per semester. The “one make-up exam” rule includes both lecture and lab exams.
2. If a family crisis, severe illness or other emergency causes you to miss an exam, it is **your** responsibility to make arrangements for a make-up exam to be taken before the next class meeting following the exam.
3. If a Lab Practical will be missed, I must be notified prior to the exam and you will need to make arrangements to take the practical during another lab. It is **your** responsibility to find out when other lab times are offered and attend that test. You can attend any other instructors’ lab to take the test because the lab practical for that material is only available that week. Lab practicals must be taken during one of the regularly scheduled lab periods. **NO EXCEPTIONS.**
4. In order to be eligible for any bonus and/or curve points added to lecture and laboratory exams, the student MUST have taken the exam with his course section at the regularly scheduled time. **NO EXCEPTIONS.**
5. There will be no make-up for the final exam, and the final must be taken at the assigned time during finals week.

Statement of Special Accommodations: 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 335-6861 to request assistance and accommodations.

Plagiarism: Any work submitted for a grade that is not the individual student’s original work will be subject to a grade of zero and/or dismissal from the course with a grade of ‘F’ as determined by the instructor.

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

Conduct: Cell phones and pagers should be turned off during class. If circumstances require you to leave your communication devices turned on, put them on vibrate. These devices should not interrupt the class.

Interaction and discussion is encouraged. However, discussion should be courteous and not conducted when the instructor or fellow students are talking. Disruptions of any kind may result in removal from the classroom.

Cheating and plagiarism **will not be tolerated**. If the instructor feels that a student is either cheating or plagiarizing at any time, the student will immediately received a grade of “zero” for that assignment. Repeat offenses will result in removal from the course with a grade of “F”.

Grievances: Odessa College policy requires that student grievances first be discussed with the instructor. Unresolved issues may then be discussed with the instructor’s immediate supervisor.

Course Requirements:

Lecture, Tegrity viewing, one hour a week in Synapse Tutorial Lab required, Exams

Tentative Lecture Schedule

<u>Week of:</u>		<u>Topic</u>
Aug	27	Intro to Class; Ch. 1: Human Organization
Sep	3	Ch. 2: Chemistry
	10	Ch. 2: Chemistry cont., Ch. 3: Cells
	17	Ch. 3: Cells, Ch. 4: Histology
	24	Exam 1 (1-3); Ch. 4: Histology
Oct	1	Ch. 5: Integumentary
	8	Ch. 6: Skeletal System
	15	Exam 2 (4-6); Ch. 8: Joints
	22	Ch. 8:Joints continued
	29	Ch. 9:Muscular System
Nov	5	Ch. 11:Nervous System
	12	Exam 3 (8, 9, 11) Ch 12:Central Nervous System
	19	Ch 12: CNS cont., Ch. 13: Peripheral Nervous System
	26	Ch. 13: Peripheral Nervous System
Dec	3	Ch. 14 Autonomic Nervous System Exam 4 (12 - 14)
	10	Final Exams

Tentative Lab Schedule

<u>Week of:</u>	<u>Topic</u>
Aug	27 Synapse Orientation; Anatomical Orientation, Microscope
Sept	3 No Lab-Labor Day Holiday
	10 Chemistry
	17 Practical 1 ; Cell Mitosis
	24 Histology Part 1
Oct	1 Histology Part 2
	8 Practical 2 ; Axial Skeleton
	15 Appendicular Skeleton
	22 Practical 3 ; Metrics
	29 Muscles
Nov	5 Muscles
	12 Practical 4 ; Central Nervous System
	19 Thanksgiving Holiday
	26 Peripheral Nervous System Special Senses
Dec	3 Practical 5

***Please note that this schedule is subject to change at any time.

Learning Resource Center (Library): The Library, known as the Learning Resource Center, provides research assistance via the LRC's catalog (print books, videos, e-books) and data bases (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: 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.**

Technical Support: For Blackboard username and password help and for help accessing you 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 student's and instructor's right to academic freedom can be found in the Odessa College Student Handbook.