

BIOL 2401.3
Anatomy and Physiology I
Spring, 2011

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Start/End Date: January 18, 2011 – May 12, 2011

Modality: Web-Enhanced

Credits: 4 sch

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, 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.

Pre-Requisites: Pass reading on THEA or COMPASS and be eligible for College Algebra bypassing 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 goals:

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.

Textbooks:

Textbook: *Human Anatomy & Physiology*, 7thed., by Elaine N. Marieb

Lab Book: *Human Anatomy & Physiology Laboratory Manual*, 8th ed., by Elaine N. Mariebb

Grading and evaluation:

Four lecture exams	(400 pts)
Final exam	(150 pts)
Tutor Lab	(50 pts)
Five lab practicals	(150 pts)

Grades will be based on a percentile scale. At the end of the semester, earned points will be divided by the total number of possible 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%

A comprehensive make-up exam will be given to replace a missed exam. 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, OR you may take the comprehensive make-up at the end of the semester. These are the only two choices.

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. Lab practicals must be taken during one of the regularly scheduled lab periods. NO EXCEPTIONS.

Plagiarism: Any work submitted for a grade that is not the individual learner'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.

Attendance: Attendance is vital to your success in this class. Attendance will be taken at the beginning of each class period. Therefore it is necessary that you be on time.

Tutor Lab Requirement: Learners are required to spend at least one hour per week in the tutor lab which is called The Synapse. Attendance and assignments will determine the tutor lab points for grading. Learner I.D. is required for participation in The Synapse. Learners whose receives a test grade below a 70 will be expected to spend two additional hours per week until they score above a 70 on a future exam.

Grievances: Learner grievances should first be discussed with the instructor. Unresolved issues may then be discussed with the instructor's immediate supervisor.

Cell phones and/or pagers must be turned off or on silent during all lecture and laboratory periods.

Tentative Lecture Schedule

Week of	Type	Description	Due Date
1/18/11	Lecture	Intro to Class; Chapter 1: Human Organization	
	Lecture	Chapter 2: Chemistry	
1/24/11	Lecture	Chemistry Continued	
1/31/11	Lecture	Chemistry Continued; Chapter 3: Cells	
2/7/11	Lecture	Cells Continued; Chapter 4: Histology	
2/14/11	Exam	Exam 1 (Ch. 1-3)	2/14/11
	Lecture	Chapter 5: Integumentary System	
2/21/11	Lecture	Chapter 6: Bones & Skeletal Tissue	
2/28/11	Lecture	Bones Continued; Chapter 8: Joints	
	Lecture	Chapter 9: Muscles & Muscle Tissues	
3/7/11	Exam	Exam 2 (Ch. 4-6)	3/7/11
	Lecture	Muscles Continued	
3/14/11	Holiday	Spring Break	
3/21/11	Lecture	Muscles Continued	
	Lecture	Chapter 11: Nervous System & Tissues	
3/28/11	Exam	Exam 3 (Ch. 8-9)	3/28/11
	Lecture	Nervous Continued; Chapter 12: Central Nervous System	
4/4/11	Lecture	Chapter 13: Peripheral Nervous System	
4/11/11	Lecture	Chapter 14: Autonomic Nervous System	
4/18/11	Lecture	Chapter 15: Special Senses	
4/25/11	Exam	Exam 4 (Ch. 11-14)	4/25/11
	Lecture	Special Senses Continued	
5/2/11	Exam	Comprehensive Make-up Exam	5/2/11
		Final Exam (including Ch. 15) (11am -	
5/9/11	Exam	1:30pm)	5/9/11

Special Information: Cheating or plagiarism will not be tolerated. If a student is suspected of cheating/plagiarism, they will be subject to being dropped from the course with a grade of "F" Cell phones and pagers should be turned off during all class times

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 email by following the link to either set up or update your account: <https://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 your online course availability or 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](#).