

**BIOL 2401**  
**Anatomy and Physiology I**  
**Fall, 2011**

Course Duration	August 22 – December 8, 2011
Modality	Web enhanced
Credits	4 sch
Instructor	Dr. James Morris
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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*, 8<sup>th</sup> ed., by Elaine N. Marieb.

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

**Grading and evaluation:**

Lecture Exams	(400 pts)
Final Exam:	(200 pts)
Synapse Tutor Lab	(50 pts)
Laboratory	(250 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 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-ups:** 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. 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.**

**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.

**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>Topic</u>
Aug	22	Intro to Class; Ch. 1: Human Organization
	29	Ch. 2: Chemistry
Sept	5	Ch. 2: Chemistry cont.
	<b>12</b>	Ch. 3: Cells
	19	<b>Exam 1 (1-3);</b> Ch. 4: Histology
	26	Ch. 5: Integumentary
Oct	<b>3</b>	Ch. 6: Skeletal System
	10	<b>Exam 2 (4-6);</b> Ch. 8: Joints
	17	Ch. 9: Muscular System
	24	Ch. 11: Nervous System
	<b>31</b>	<b>Exam 3 (8, 9, 11)</b> Ch. 12: Central Nervous System
Nov	7	Ch. 12: CNS Continued
	14	Ch 13: PNS
	<b>21</b>	Ch.14 ANS <b>Thanksgiving Week</b>
	28	Ch. 14 ANS cont.
Dec	<b>5</b>	<b>Exam 4 (12 - 14)</b>
	12	<b>Final Exams</b>

### Tentative Lab Schedule

	<u>Topic</u>
<b>Date:</b>	
Aug 22	Synapse Orientation; Anatomical Terminology, Microscope
29	Chemistry (Handout), Fluid Transport (Handout)
<b>Sept 5</b>	No Lab (Labor Day Holiday)
<b>12</b>	<b>Practical 1</b> , Cell Division
19	Histology (Handout)
26	Histology (Handout)
<b>Oct 3</b>	<b>Practical 2;</b> Nervous System (Handout)
10	Nervous System (Handout)

17	Special Senses (Handout)
<b>24</b>	<b>Practical 3;</b> Axial Skeleton (Handout)
31	Appendicular Skeleton (Handout)
<b>Nov 7</b>	<b>Practical 4;</b> Metrics
14	Muscles (Handout)
21	Thanksgiving Holiday
<b>28</b>	<b>Practical 5</b>

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](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.