

# Course Syllabus

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**NOTE:** This syllabus is subject to change during the semester. Please check this syllabus on a regular basis for any updates.

**Department** : Biology  
**Course Title** : BIOL\_2401\_Lab  
**Section Name** : BIOL\_2001\_B  
**Start Date** : 01/18/2011  
**End Date** : 05/09/2011  
**Modality** : WEB-ENHANCED  
**Credits** :

## Instructor Information

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**Name** : Chet Cooper  
**OC Email** : ccooper@odessa.edu  
**OC Phone #** : (432) 335-6590

## Course Description

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This course **complements the concepts presented in the lecture portion of BIOL 2401 and provides hands-on experience for some of those concepts.**

## Prerequisites/Corequisites

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Must be co-enrolled in BIOL 2401 and HPRS 1106 and meet the prerequisites for each of those courses.

## Scans

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SCANS 1, 3, 6 and 9

## Course Objectives

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1. Learner will learn to use a microscope and identify the parts of the microscope.
2. Learner will be able to recognize and use the language of the anatomical terminology of the human body.
3. Learner will be able to recognize and use the language and mathematical conversions required for exploration in the scientific and medical fields.
4. Learner will learn the basic chemistry needed to conceptualize the inner workings of the body organ systems.
5. Learner will learn the terminology used in diffusion and be able to demonstrate the process of diffusion across a selectively permeable membrane.
6. Learner will learn the terminology of histology, characteristics and functions of the four tissue types, and be able to identify various components of histological slides.
7. Learner will be able to identify the various cellular structures responsible for maintaining life.
8. Learner will be able to identify the structures and functions of the integumentary, skeletal, nervous, and muscle systems, as well as how each system interacts with the others.

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### **Last Day to drop the class with a "W" is Thursday, April 14, 2011.**

#### Lab Rules:

- 1- Cell phones and all other types of electronic equipment are distractive and shall be turned off while the student is in the classroom. At the sole discretion of the instructor, a student may be dismissed from the class if their cell phone rings during lab. A student shall receive a zero on the lab exam and be asked to leave the lab, if their cell phone rings during a lab practical.
- 2- Students are not allowed to have food or drinks in the lab.
- 3- Students shall clean the lenses, cover the microscope, and store their microscope in its storage bin prior to leaving the lab.
- 4- Students shall immediately report any type of glass breakage or chemical spill to the instructor.
- 5- Students shall clean their workstation prior to leaving the lab.
- 6- Students shall practice courteous and safe behavior at all times while in the lab.
- 7- Student shall follow all instructions given by the instructor.

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## Required Readings/Materials

a) Student must purchase the following **required** readings/materials:

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

## **Course Requirements (Lectures, Assignments and Assessments)**

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5 Lab Tests, participate in discussion, work cooperatively with lab partners

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*Week 1*

No Lab – MLK Holiday

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*Week 2*





**Topic/Overview:** This week focuses on Terminology and the Microscope



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Introduction to Class	Discussion	Instuctor will provide the learners with an introduction to the class, the class policies, and
Lab 1	Lab	1-Anatomical Terminology; and 2- The Microscope



*Week 3*



**Topic/Overview:** This week focuses on Metrics and Chemistry





<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 2	Lab	Metrics Handout, Chemistry Handout



*Week 4*



**Topic/Overview:** This week focuses on Diffusion, Osmosis, and computer skills



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab Practical 1	Exam	Exam over Terminology, Microscope, Metrics, and Chemistry
Lab 3	Lab	Homework: Tegrity/PhysioEx – Fluid Transport





*Week 5*



**Topic/Overview:** This week focuses on Histology



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>	<b>D</b>
Lab 4	Lab	Cell Division; Histology (Epithelial)	02/14/2011



*Week 6*





**Topic/Overview:** This week focuses on Histology



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>	<b>Du</b>
Lab 5	Lab	Histology (CT, Muscle, Nerve)	02/21/2011



*Week 7*



**Topic/Overview:** This week focuses on Testing





<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 6 - Practical 2	Exam	Exam over Fluid Transport, Cell Division, and Histology



*Week 8*



**Topic/Overview:** This week focuses on Nervous System



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 7	Lab	Nervous System





*Spring Break*

Week of March 14



*Week 9*



**Topic/Overview:** This week focuses on Nervous System



Item(Name)	Type	Description
Lab 8	Lab	Nervous System Cont.





*Week 10*



**Topic/Overview:** This week focuses on Special Senses



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 9	Lab	Special Senses



*Week 11*





**Topic/Overview:** This week focuses on the Axial Skeleton



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab Practical 3	Exam	Lab practical covering the nervous system and special senses
Lab 10	Lab	Axial Skeleton



*Week 12*



**Topic/Overview:** This week focuses on the Appendicular Skeleton



Item(Name)	Type	Description
Lab 11	Lab	Appendicular Skeleton



*Week 13*



**Topic/Overview:** This week focuses on

Item(Name)	Type	Description
Lab 12 - Practical 4	Exam	Lab practical covering the axial and appendicular skeleton



*Week 14*





**Topic/Overview:** This week focuses on

<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 13	Lab	Muscular System





*Week 15*



**Topic/Overview:** This week focuses on muscle





Item(Name)	Type	Description
Lab 14	Lab	Muscular System Cont.



*Week 16*



**Topic/Overview:** This week focuses on -- No Lab



<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>
Lab 15	Exam	Lab Practical covering the muscular system









## **Grading Policy**





A total of 6 lab tests will be given with the total usually weighing 25% of the overall Anatomy and Physiology I grade, however; Each lecture instructor will be solely responsible for determining the exact calculated weight of Lab exams in determining overall class grade.

Lab grades will be posted to Blackboard under the individual's lecture professor shell.





Percentage %	Grade
90 +	A
80 - 89	B
70 - 79	C
60 - 69	D
≤59	F



## **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](http://www.odessa.edu/gmail/), 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**



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## **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](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).



## **Important School Policies**

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