

Course Syllabus Biol. 1407.613 Spring 2011

Department: Biology **Course Title:** General Biology II (majors)
Name: BIOL_1407_613 **Start Date:** 01/18/2011 **End Date:** 05/13/2011
Modality: FACE-TO-FACE **Credits:** 4
Instructor's Name: Clovis Stacey **OC Email:** cstacey@odessa.edu
Instructor's Office: WH 130 **OC Phone #:** (432) 335-6543

Course Description: Students continue their understanding and interpretation of biological terms with respect to plant and animal growth, plant and animal tissues and systems, evolution and behavior. A taxonomic survey of the 5 kingdoms is covered. Laboratory investigations include acquisition of practical experience in the dissection of a mammal with reasoning to the relationships between form and function and making decisions relative to cause and effect relationships. Designed as a transferable lab science course for science majors. Lab fee required.

Prerequisites/Corequisites: BIOL 1406.

Scans: 1, 3, 6, 9

Course Objectives:

1. Learner will be able to identify the basic components of a virus and the various replication methods most common to viruses, as well as the impact viruses have to life.
2. Learner will be able to identify the three domains of living organisms and the taxonomical divisions within these domains as well as the impact each group has on the living world.
3. Learner will be able to distinguish bacteria, protists, fungi, plants and animals as to forms, functions, reproductive means, nutrition and the impact each has on the living world.
4. Learner will be able to identify significant anatomical structures of the following organ systems: Endocrine, Cardiovascular, Immune, Respiratory, Digestive, Urinary, and Reproductive, Nervous, Muscular, Skeletal and Animal Development.
5. Learner will be able to explain the basic physiology of the following organ systems: Endocrine, Cardiovascular, Immune, Respiratory, Digestive, Urinary, and Reproductive, Nervous, Muscular, Skeletal and Animal Development.
6. Students will demonstrate a basic understanding of animal behavior.
7. Learner will be able to recognize the importance of evolution to the continuity of living forms and the various forms of support for evolution.

Required Readings/Materials: *Biology*. 10th edition, by Sylvia Mader; McGraw-Hill, 2010; ISBN-978-0-07-352543-3, ISBN--07-352543-X

Grading Policy: The learners semester grade for the course is determined by calculating the below percentiles for each area, and then adding the percentiles for each area together for a percentage out of 100:

Lecture test grades = 70% Lab test grades = 30%

A= 89.5 – 100

B = 79.5 - 89.49

C = 69.5 - 79.49

D = 59.5 - 69.49

F = <59.5

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: 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.**

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](#).

Department Specific Information:

1. Last Day to drop the class with a "W" is Thursday, April 14, 2011.
2. Cell phones must be turned off while the student is in the classroom.

Tentative Lecture Schedule

Jan.	17	No Classes (MLK Holiday)
	24	Introduction to the class: Overview of class and class policies; Ch. 20: Viruses, Bacteria, and Archaea
	31	Ch. 21: Protists: Evolution and Diversity
Feb.	07	Ch. 22: Fungi Evolution and Diversity
	14	Test 1 (Ch. 20 - 22); Review Test 1; Ch. 23: Plant Evolution and Diversity
	21	Ch. 24: Flowering Plants: Structure and Organization; Ch. 25: Flowering Plants: Nutrition and Transport
	28	Ch. 27: Flowering Plants: Reproduction; Ch. 29: Vertebrate Evolution
Mar.	07	Test 2 (Ch. 23, 24, 25, & 27), Review Test 2; Ch. 30: Human Evolution
	14-18	No Classes (Spring Break)
	21	Test 3 (Ch. 29 - 30); Review Test 3; Ch. 32: Circulation and Cardiovascular Systems
	28	Ch. 33: Lymph Transport and Immunity; Ch. 34: Digestive Systems and Nutrition
Apr.	04	Ch. 35: Respiratory Systems; Ch. 36: Body Fluid Regulation and Excretory Systems
	11	Test 4 (32 – 35); Test 4 Review; Ch. 37: Neurons and Nervous Systems
	18	Ch. 39: Locomotion and Support Systems; Ch. 40: Hormones and Endocrine Systems; Ch. 41: Reproductive Systems
	25	Test 5 (Ch. 37, 39, 40, 41); Review Test 5; Ch. 44: Population Ecology
May	02	Ch. 47: Conservation and Biodiversity
	11	Final Exam, Wednesday, Time: 6:00 – 8:30 pm, Room: WH 111

Tentative Laboratory Schedule Biol 1407 Spring 2011

LABORATORY MANUAL: Biology 10th ed. Laboratory Manual, by Sylvia S. Mader, WCB McGraw-Hill

LABORATORY ATTENDANCE: The laboratory portion of this course is mandatory.

TESTING: There are four lab exams at 100 pts. each. A deduction is given for misspelling.

WEEK OF	LABORATORY EXERCISE
Jan. 18	No Lab
24	Ex. 14: Bacteria and Protists
31	Ex. 15: Fungi
Feb 07	Lab Test 1 (14 & 15); Ex. 16: Nonvascular Plants and Seedless Vascular Plants
14	Review Lab 1 Test; Ex. 17: Seed Plants
21	Lab Test 2 (16 & 17); Ex. 25: Animal Organization
28	Review Lab 2 Test; Ex. 25: Animal Organization
Mar. 07	Ex. 22: Introduction to Invertebrates
14	No Lab (Springbreak)
21	Lab Test 3 (25 & 22); Ex. 23: Invertebrates Coelomates

	28	Review Lab 3 Test; Ex. 24: The Vertebrates
Apr.	04	Lab Test 4 (23 & 24) ; Ex. 26: Basic Mammalian Anatomy I
	11	Review Lab Test 4 ; Ex. 26: Basic Mammalian Anatomy I
	18	Lab Exam 5 (26) ; Ex. 27: Basic Mammalian Anatomy II
	25	Ex. 27: Basic Mammalian Anatomy II
May	02	Lab Exam 6 (27)