

Course Syllabus Biol. 1407.103 Summer II 2012

Department: Biology **Course Title:** General Biology II (majors) **Name:** BIOL_1407_103
Start Date: 07/09/2012 **End Date:** 08/09/2012 **Modality:** Web Enhanced
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.

Student Success: The Odessa College Student Success Coaches will help you stay focused and on track to complete your educational goals. If an instructor sees that you might need additional help or success coaching, he or she may submit a Retention Alert or a Starfish Alert. A Student Success Coach will contact you to work toward a solution.

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](#), 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: The student Portal is a location where information important to the student is located. You can access the portal from the Odessa College home page.

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 Wednesday, August 1, 2012.
2. Cell phones must be turned off while the student is in the classroom.

Tentative Lecture Schedule

July	09	Introduction to the class: Overview of class and class policies
	10	Ch. 19: Viruses
	11	Ch. 27 Bacteria, and Archaea
	12	Ch. 28: Protist, Evolution and Diversity
	16	Test 1 (Ch. 19, 27, & 28)
	17	Review Test 1; Ch. 29: Plant Diversity 1, Ch. 30: Plant Diversity II Fungi
	18	Ch. 31: Fungi
	19	Test 2 (Ch. 29, 30, & 27)
	23	Review Test 2; Ch. 32: An overview of Animal Diversity
	24	Ch. 33: An Introduction to Invertebrates
	25	Ch. 34: The Origin and Evolution of Vertebrates
	26	Test 3 (Ch. 32-34)
	30	Review Test 3; Ch. 40: Basic Principles of Animal Form and Function
	31	Ch. 41: Animal Nutrition
Aug.	01	Ch. 42: Circulation and Gas Exchange
	02	Test 4 (Ch. 40- 42)
	06	Test 4 Review; Ch. 43: The Immune System
	07	Ch. 44: Osmoregulation and Excretion
	08	Test 5 (Ch. 43- 44)
	09	Final Exam, WH 111, 8:00- 10:30 am

Tentative Laboratory Schedule Biol 1407 Spring 2012

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 six lab exams at 100 pts. each. A deduction is given for misspelling.

LABORATORY EXERCISE

July	09	Introduction to the Lab; policies and rules; Ex. 14: Bacteria and Protists
	10	Ex. 15: Fungi
	11	Lab Test 1 (14 & 15)
	12	Review lab Test 1; Ex. 16: Nonvascular Plants and Seedless Vascular Plants
	16	Ex. 17: Seed Plants
	17	Lab Test 2 (16 & 17);
	18	Review Lab 2 Test; Ex. 25: Animal Organization
	19	Ex. 25: Animal Organization

	23	Lab Test 3 (25)
	24	Review Lab 3 Test; Ex. 22: Introduction to Invertebrates
	25	Ex. 23: Invertebrates Coelomates
	26	Ex. 24: The Vertebrates
	30	Ex. 24: The Vertebrates Continued
	31	Lab Test 4 (22, 23 & 24);
Aug.	01	Review Lab Test 4 ; Ex. 26: Ex. 26: Basic Mammalian Anatomy I
	02	Lab Exam 5 (26);
	06	Review Lab Test 5; Ex. 27: Basic Mammalian Anatomy II
	07	Ex. 27: Basic Mammalian Anatomy II
	08	Lab Exam 6 (27); LectureComprehensive Make-up Exam
	09	No Lab