

Course Syllabus

Department : Biology
Course Title : Biol. 1408 Non-Majors
Section Name : 4
Start Date : 01/18/2011
End Date : 05/07/2011
Modality : Face to Face
Credits : 4

Instructor Information

Name : Steven Sofge
OC Email : ssofge@odessa.edu
OC Phone # : (432) 335-6361

Course Description

BIOL 1408 Introduction to Biology I(26.0101.5103) (3-3)
4 hours

This course is a survey of biology including molecular and cellular biology, genetics, DNA, evolution and ecology. The cellular and molecular basis of life will be emphasized. Current topics in biology and medicine will be discussed. Designed as a transferable lab science course for non-science majors. Lab fee required. (SCANS 3, 6, 9) Prerequisite: None.

Prerequisites/Corequisites

Prerequisite: None

[Scans](#)

Course Objectives

1. Learner will be able to identify the significant concepts of the atom and how it forms bonds with other atoms to form molecules.
2. Learner will be able to explain the difference between inorganic molecules and organic molecules and recognize the various forms of each and the significance of these forms as they relate to living organisms.
3. Learner will be able to identify the 4 macromolecular molecules found common to living organisms and their units of structure as well as their functions important for life.
4. Learner will be able to understand the cell in terms of its anatomical structure and the functions of each structure and understand the processes by which substances move into and out of the cell.
5. Learner will be able to explain energy production and utilization by the different forms of cells which are common to our planet.
6. Learner will be able to understand the heredity of life and the alterations which occur in its structure and the consequences of these alterations.
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.
8. Learner will be able to understand the various concepts of ecology required to have a rudimentary grasp of its aspects.

Required Readings/Materials

You must purchase the following **required** readings/materials:

Biology: A Guide to the Natural World, 5th ed. by David Krogh, Pearson Publishing Co.

Course Requirements (Lectures, Assignments and Assessments)

Item (Name)	Type	Description	Due
Unit I	Lecture/Lab	Ch. 1,2,3	Feb. 13
Unit II	Lecture/Lab	Ch. 4,5,6	Feb. 27
Unit III	Lecture/Lab	Ch. 7,8	Mar. 13
Unit IV	Lecture/Lab	Ch. 9,10,13,14	Apr. 3
Unit V	Lecture/Lab	Ch. 11,12,15	Apr. 17
Unit VI	Lecture/Lab	Ch. 33,34,35	May 8
Final Exam	Comprehensive Exam	Exam	May 11 @ 11am

Biol 1407 / Laboratory Schedule/ Sp 2011

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

LABORATORY ATTENDANCE: The laboratory portion of this course is designed to provide a “hands on” learning experience. Therefore, participation in all laboratory classes is mandatory in order to fully meet course requirements. Excessive absences will have a direct impact on your final grade.

3 absences: 15% deduction from final lab average

4 absences: 20 % deduction from final lab average

5 absences: 25% deduction from final lab average

TESTING: There are six lab exams at 100 pts. each. A deduction of 1/3 pt is given for misspelling.

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Week of	LAB	TITLE
Jan 18		no lab

24	14	Bacteria and Protists
31	15	Fungi
Feb 7		Lab Exam I (14, 15)
	16	Nonvascular Plants and Seedless Vascular Plants
14	17	Seed Plants
21		Lab Exam II (Ex 16, 17)
	25	Animal Organization
28	22	Introduction to Invertebrates
Mar 7		Lab Exam III (Ex 25, 22)
	23	Invertebrate Coelomates
21	24	The Vertebrates
28		Lab Exam IV (Ex 23, 24)
	26	Basic Mammalian Anatomy I
Apr 4	26	Basic Mammalian Anatomy I
11		Lab Exam V (Ex 26)
	27	Basic Mammalian Anatomy II
18	27	Basic Mammalian Anatomy II

May 2

Lab Exam VI (Ex 27)**Comrehensive Lecture Makeup Exam****GRADING POLICY:**

90-100 A

80-89 B

70-79 C

60-69 D

0-59 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 sevicees at 432-335-6861 to request assistance and accommodations.

Learning Resouce 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" lervice 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

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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.

Important School Policies

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](#).

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.

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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.