

## Course Syllabus Biol. 1407.3 Spring 2011

**Department:** Biology      **Course Title:** General Biology II (majors)      **Name:** BIOL\_1407\_3  
**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*. 10<sup>th</sup> 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](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

|             |           |   |
|-------------|-----------|---|
| <b>Jan.</b> | <b>17</b> | <b>No Classes (MLK Holiday)</b>                                 |
|             | 19        | Introduction to the class: Overview of class and class policies |

|      |              |   |
|------|--------------|---|
|      | 21           | Ch. 20: Viruses, Bacteria, and Archaea                            |
|      | 24           | Ch. 20 continued;   |
|      | 26           | Ch. 21: Protist, Evolution and Diversity                          |
|      | 28           | Ch. 21 Continued  |
|      | 31           | Ch. 21 Continued  |
| Feb. | 02           | Ch. 22: Fungi Evolution and Diversity                             |
|      | 04           | Ch. 22 Continued  |
|      | <b>07</b>    | <b>Test 1 (Ch. 20 - 22)</b>                                       |
|      | 09           | Review Test 1; Ch. 23: Plant Evolution and Diversity              |
|      | 11           | Ch. 23 Continued  |
|      | 14           | Ch. 24: Flowering Plants: Structure and Organization              |
|      | 16           | Ch. 24 Continued  |
|      | 18           | Ch. 25: Flowering Plants: Nutrition and Transport                 |
|      | 21           | Ch. 25 Continued  |
|      | 23           | Ch. 27: Flowering Plants: Reproduction                            |
|      | 25           | Ch. 27 Continued  |
|      | <b>28</b>    | <b>Test 2 (Ch. 23, 24, 25, &amp; 27)</b>                          |
| Mar. | 02           | Review Test 2; Ch. 29: Vertebrate Evolution                       |
|      | 04           | Ch. 29 Continued  |
|      | 07           | Ch. 29 Continued  |
|      | 09           | Ch. 30: Human Evolution   |
|      | 11           | Ch. 30 Continued  |
|      | <b>14–18</b> | <b>No Classes (Spring Break)</b>                                  |
|      | <b>21</b>    | <b>Test 3 (Ch. 29 - 30)</b>                                       |
|      | 23           | Review Test 3; Ch. 32: Circulation and Cardiovascular Systems     |
|      | 25           | Ch. 32 Continued  |
|      | 28           | Ch. 33: Lymph Transport and Immunity                              |
|      | 30           | Ch. 33 Continued  |
| Apr. | 01           | Ch. 34: Digestive Systems and Nutrition                           |
|      | 04           | Ch. 34 Continued  |
|      | 06           | Ch. 35: Respiratory Systems                                       |
|      | 08           | Ch. 35 Continued  |
|      | 11           | Ch. 36: Body Fluid Regulation and Excretory Systems               |
|      | 13           | Ch. 36 Continued  |
|      | 15           | Ch. 36 Continued  |
|      | <b>18</b>    | <b>Test 4 (32 – 35)</b>   |
|      | 20           | Test 4 Review; Ch. 37: Neurons and Nervous Systems                |
|      | 22           | Ch. 37 Continued  |
|      | 25           | Ch. 39: Locomotion and Support Systems                            |
|      | 27           | Ch. 40: Hormones and Endocrine Systems                            |
|      | 29           | Ch. 41: Reproductive Systems                                      |
| May  | 02           | <b>Test 5 (Ch. 37, 39, 40, 41)</b>                                |
|      | 04           | Ch. 44: Population Ecology  |
|      | 06           | Ch. 47: Conservation and Biodiversity                             |
|      | <b>09</b>    | <b>Final Exam, Monday, Time: 11:00 am - 1:30 pm, Room: WH 111</b> |

**Tentative Laboratory Schedule  
Biol 1407 Spring 2011**

**LABORATORY MANUAL:** Biology 10<sup>th</sup> 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.

| <b>WEEK OF</b> | <b>LABORATORY EXERCISE</b>   |
|----------------|--|
| Jan. 18        | No Lab   |
| 24             | Ex. 14: Bacteria and Protists  |
| 31             | Ex. 15: Fungi  |
| Feb 07         | <b>Lab Test 1 (14 &amp; 15);</b> Ex. 16: Nonvascular Plants and Seedless Vascular Plants |
| 14             | Review Lab 1 Test; Ex. 17: Seed Plants   |
| 21             | <b>Lab Test 2 (16 &amp; 17);</b> Ex. 25: Animal Organization                             |
| 28             | Review Lab 2 Test; Ex. 25: Animal Organization   |
| Mar. 07        | Ex. 22: Introduction to Invertebrates  |
| 14             | <b>No Lab (Springbreak)</b>  |
| 21             | <b>Lab Test 3 (25 &amp; 22);</b> Ex. 23: Invertebrates Coelomates                        |
| 28             | Review Lab 3 Test; Ex. 24: The Vertebrates   |
| Apr. 04        | <b>Lab Test 4 (23 &amp; 24);</b> Ex. 26: Basic Mammalian Anatomy I                       |
| 11             | Review Lab Test 4 ; Ex. 26: Basic Mammalian Anatomy I                                    |
| 18             | <b>Lab Exam 5 (26);</b> Ex. 27: Basic Mammalian Anatomy II                               |
| 25             | Ex. 27: Basic Mammalian Anatomy II   |
| May 02         | <b>Lab Exam 6 (27)</b>   |