

# Course Syllabus

**Department** : Biology  
**Course Title** : Biol. 1409 Non-Majors  
**Section Name** : WB  
**Start Date** : 01/18/2011  
**End Date** : 05/07/2011  
**Modality** : ONLINE  
**Credits** : 4

## Instructor Information

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**Name** : Steven Sofge  
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**OC Phone #** : (432) 335-6361

## Course Description

This course is a continuation of BIOL 1408. Biology of viruses, bacteria, protistans, fungi, plants, animals and animal behavior is presented. Emphasis placed on general human anatomy and physiology. Current topics in biology and medicine will be discussed. Designed as a transferable lab science course for non-science majors. Lab fee required.

## Prerequisites/Corequisites

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Prerequisite: BIOL 1408

## [Scans](#)

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SCANS 3, 6, 9

## Course Objectives

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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, 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.
5. Learner will be able to explain the basic physiology of the following organ systems: Endocrine, Cardiovascular, Immune, Respiratory, Digestive, Urinary, and Reproductive. Students will demonstrate a basic understanding of animal behavior.
6. Students will demonstrate a basic understanding of animal behavior.

### **Directions for Biol. 1409**

1. Goto [www.odessa.edu](http://www.odessa.edu) and enter blackboard and click on Biol. 1409 for non-majors internet. **Read your OC student email daily for any new information.**

2. **Print a copy of these directions to refer to as you go through this course.**

3. Click on "Course Compass" to enter the course. Follow the student registration instructions. This is where you will enter your **access code** found in a packet shrink-wrapped with your book. **Your course id # is "sofge41731".**

4. To take any exams or quizzes or discussion questions, go into "Course Compass" and click on "Assignments". All Chapter assignments will be open from the first day of class until midnight on the due date, so you may work ahead of schedule if you so choose. You will be restricted to 45 minutes once you begin a Chapter test.

5. All Units, Unit Cumulative Exams and Unit Discussion Questions will need to be taken by midnight of their due date. These cover 2-4 Chapters per unit. Unit Cumulative Exams and Unit Discussion Questions will appear on the "Course Compass" "Assignment" page will be inaccessible at midnight of the due date. You will be restricted to 1 hr. and 15 minutes for each of these. Unit Discussion Questions will only be 2-3 questions which will be pulled directly from the sections titled "Apply Your Knowledge" found at the end of the chapters. These are also the same questions you should be discussing and answering on the discussion board with the other students in this class.

**6. FOR EACH CHAPTER, COMPLETE THE FOLLOWING BY THE END OF THEIR DUE DATE:**

- A. Read the chapter and watch the power point lectures.
- B. Watch the web animations for this chapter and take the quiz over these animations.
- C. Take the Chapter Test

**7. Point values for each quiz/exam follows:**

**\*Animation Quizzes: 10 pts. (30 min.)**

**\*Discovery Video Quizzes: 25 pts. (20 min.)**

**\*Bio-Flix Quizzes: 10 pts. (20 min.)**(found within the chapter contents on Course Compass)

**\*Lab Quizzes: 20 pts. (45 min.)**

**\*Chapter Tests: 50 pts. (45 min.)**

**\*Unit Cumulative Exams: 100 pts. (1.25 hrs.)**

**\*Unit Discussion Questions: 50 pts. (1.25hrs.)**

**\*Final Exam: 200 pts.**

**8. IN ADDITION TO WHAT IS DONE FOR EACH CHAPTER, THE FOLLOWING INFORMATION IS SPECIFIC FOR EACH CHAPTER:**

**All exams and quizzes are to be taken on the assignment page of ?course compass?**

**Unit I (Ch 16, 21, 22) (Due Sun., Sept. 12)**

Ch.16:

Watch the Discovery Videos:

- a) ?Cells?
- b) ?Fighting Cancer?

Take the quizzes

Do the lab: ?Evolution Lab? and take quiz.

Ch. 21:

There is no Animations Quiz for this chapter.

Watch the Discovery Videos:

- a) ?EmergingDiseases
- b) ?TastyBacteria
- c) ?AntibioticResistance?

Take quizzes

Ch. 22:

Watch the Discovery Videos:

- a) ?Fungi?
- b) ?LeafcutterAnts?

Take quizzes

**Take the Unit I Cumulative Exam and Answer the Unit I Discussion Questions.**

**Unit II (Ch. 24, 25) (Due Sun., Sept. 26)**

Ch. 24:

Watch the Discovery Video: ?Plant Pollination? and take quiz.

Ch.25:

Watch the Discovery Videos:

- a) ?SpacePlants?
- b) ?Trees?

Take the quizzes

Watch the bioflix titled: ?Water Transport in Plants? and take quiz.

**Take the Unit IICumulative Exam and Answer the Unit II Discussion Questions.**

**Unit III (Ch. 23, 26, 27) (Due Sun., Oct. 17)**

Ch. 23:

Watch the Discovery Video: ?Invertebrates? and take the quiz

Ch.26:

Watch the Discovery Videos:

- a) ?An Introduction to the Human Body?
- b) ?Muscles and Bones?

Take the quizzes.

Watch the bioflix titled: ?Muscle Contraction? and take quiz.

Do PAL Labs: I. Anatomical Models: a) Integumentary System, b) Skeletal System and take quizzes over each

Do PAL Labs: II. Pig Dissection: Muscular System and take quiz.

Ch. 27:

Watch the Discovery Videos: a) ?The Endocrine System? and take quiz

b) ?Teen Brains? and take quiz

Watch the bioflix titled: ? How Neurons Work? and take quiz.

Do PAL labs: I. Anatomical Models: a) Nervous System, b) Endocrine System and

Take quizzes for both.

Do PAL lab: I. Pig Dissection: Endocrine System and take quiz.

**Take the Unit III Cumulative Exam and Answer the Unit III Discussion**

## Questions.

### Unit IV(Ch. 28, 29, 30) (Due Sun., Nov. 7)

Ch. 28:

Watch the Discovery Video: ?Vaccines? and take quiz.

Do PAL lab: Anatomical Models: Lymphatic System and take quiz

Ch. 29:

Watch the Discovery Video: ?Blood? and quiz.

Do the PAL labs: I. Anatomical Models: a) Cardiovascular System, b) Respiratory System and take quizzes on both. II. Pig Dissections: a) Cardiovascular System, b) Respiratory System and take quizzes on both.

Do the labs:

- a) ?Cardiovascular Lab? and take the quiz. Only do Assign. #1.
- b) ?Hemoglobin Lab? and take the quiz. Only do Assign. #1.

Ch. 30:

Watch the Discovery Video: ?Nutrition? and take the quiz.

Do the PAL labs: I. Anatomical Models: a) Digestive System, b) Urinary System and take quizzes on both. II. Pig Dissection: a) Digestive System, b) Urinary System and take quizzes on both.

**Take the Unit IV Cumulative Exam and Answer the Unit IV Discussion**

**Questions.**

**Unit V(Ch. 31, 32, 36) (Due Sun., Dec. 5)**

Ch.31: There are no special assignments for this Chapter.

Ch.32:

Do the PAL Labs: I. Anatomical Models: Reproductive System and take quiz.

II. Pig Dissection: Reproductive System and take quiz.

Ch. 36.

There are no extra assignments for this Chapter.

**Take the Unit V Cumulative Exam and Answer the Unit V Discussion Questions.**

**The Final Exam opens 9am Mon., May 5 and Closes Wed. Dec.8 at midnight.**

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## **Required Readings/Materials**

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

*Biology: A Guide to the Natural World*, 4th ed. by David Krogh, Pearson Publishing Co.



## Course Requirements (Lectures, Assignments and Assessments)

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Item (Name)	Type	Description	Due
Unit I	On-Line Lecture/Lab	Ch. 16, 21, 22	Feb. 13
Unit II	On-Line Lecture/Lab	Ch. 24, 25	Mar. 6
Unit III	On-Line Lecture/Lab	Ch. 23, 26, 27	Apr. 2
Unit IV	On-Line Lecture/Lab	Ch. 28, 29, 30	Apr. 17
Unit V	On-Line Lecture/Lab	Ch 31, 32, 36	8-May
Final Exam	Exam	Comprehensive	May 9-11

### 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 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, 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, 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 abd 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).