

BIO 1408 (4:3:3)

General Biology for Non-Science Majors I

Department of Biology  
Division of Arts and Sciences  
SOUTH PLAINS COLLEGE  
Levelland Campus

Dr. Eric Niederhauser  
Fall 2022 ONLINE

## **Biology I for Non - Science Majors (BIOL 1408)** **FALL 2022 ONLINE**

INSTRUCTOR: Dr. Eric Niederhauser

OFFICE PHONE: 806 716-2321

EMAIL: [eniederhauser@southplainscollege.edu](mailto:eniederhauser@southplainscollege.edu). Please include “1408 Online” in the subject. I teach a few courses and the answer to your question will likely depend on what course you are in. I generally try to respond promptly to emails. Evening or Saturday response times may be delayed. I don’t look at work emails on Sunday.

OFFICE HOURS: Mon: 9:30 – Noon, 2:30 - 3:30; Tue 9:30 – Noon; Friday: 9:00 – 11:00. These can be in person or online using Blackboard Collaborate. If you would like to schedule a time for me to enter the Collaborate course room at any time, send me an email. If I am in my office I can easily login.

### **Course Description**

This general biology course is devoted to exploring the properties, structures and functions shared by all organisms with an emphasis on humans. These properties involve: cells, chemistry, energy, genetics, evolution, and interactions. We will also learn about science and the process of scientific discovery. PREREQUISITE: None. CREDIT: Four semester hours

### **Course Implementation**

BLACKBOARD: The platform for this course is here: <https://southplainscollege.blackboard.com>. Lectures, current grades, links to labs etc. will be available. Written assignments will also be uploaded to Blackboard. Online office visits will be conducted in Blackboard Collaborate.

LECTURES: About one hour and 15 minutes of prerecorded lectures will be posted to Blackboard at 8:00 am on both Mondays and Wednesdays (see schedule below).

LABORATORY: You are **required** to complete weekly online lab-simulation sets accessed through McGraw-Hill Connect in Blackboard. The simulations are automatically scored. Each simulation set is expected to take about 2 hours (some may take a bit more, some much less). The weekly simulations are due Sunday 11:59 pm.

RECOMMENDED TEXT: Campbell, *Essential Biology with Physiology*, 6<sup>th</sup> Ed. by Simon, et al. Others are acceptable.

### **TECHNOLOGY REQUIREMENTS:**

- Computer or laptop WITH microphone and camera.
- Reliable internet access. You will be required to meet all deadlines – no matter what happens to your internet connection. Have a backup plan.
- Printer to print assignments.
- Camera or scanner to take pictures of completed written assignments.
- Google Chrome with Proctorio browser extension installed.

Note: As a member of the SPC community, you have free access to Office 365. Office 365 provides access to Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and 1TB of free online storage with Microsoft OneDrive. To access Office 365, go to <https://www.office.com> and sign in with the following format: SPCusername@southplainscollege.edu and your MySPC password.

### **Grading**

IN-LECTURE QUESTIONS: Each lecture video has embedded questions which are automatically scored.

EXAMS: There will be five timed exams given during the course which will cover both lecture and lab. Expect multiple choice, true or false, fill-in-the blank, short answer and essay questions. The 5<sup>th</sup> and final exam will be comprehensive.

Exams will be available to take beginning at 8:00 am on the scheduled Friday. BE AWARE: Emails about exam problems sent on Sunday will likely NOT be seen until after the exam is due.

Your identity will be verified using the Proctorio Chrome browser Extension. Specific instructions and procedures will be provided.

Do not neglect to take exams. Because of the nature of online courses, and the length of time in which you can choose to take the exam, there are no makeup exams. You will receive a zero for missed exams.

QUIZZES: Each Friday at 8:00 am, except exam weeks, one quiz addressing the week’s lecture topics will be posted in the Weekly Folder. There will be 10-15 questions. Your identity will be verified using the Proctorio Chrome browser

extension. Specific instructions and procedures will be provided before the first quiz. Quizzes will be available to take until Sunday 11:59 pm. After that, any blank quiz grades will be changed to zero. There are no makeup quizzes.

**LAB GRADES:** Credit is given for simulation completion. Each simulation set also has a “homework” assignment consisting of about 25 multiple-choice questions. These are scored automatically. Understanding of lab concepts may also be assessed in the exams and quizzes. There are a few written lab assignments which will also be uploaded and graded.

#### GRADING SUMMARY

Grade Type	Percentage of Grade
Exams	60 %
Lab Grades/Assignments	20 %
Quizzes	10 %
In-Lecture Questions	10 %

*Grading scale:* Final semester average 90-100 = A; 80-89 =B; 70-79 = C; 60-69 = D; <60 = F.

*Last Day to Drop the Course:* Dec 1, 2022

#### **Policies, Procedures and Rules**

This course will be conducted according to the policies and procedures of the South Plains College Student Handbook and General Catalog.

**Email:** I will send emails to your SPC email address periodically throughout the course. You are responsible for any information that is sent to your SPC email by me or the college, so please check it regularly.

**Attendance:** Lecture attendance is based on your weekly quizzes and lab completion. If you fail to take the weekly quizzes for two weeks, you will be counted absent for both weeks and will be dropped from the class. Because this is a lab-integrated course, failure to complete three or more lab sets will result in being dropped from the course. Extenuating circumstances will be evaluated on a case-by-case basis.

**Academic Integrity:** The attempt of any student to cheat or present as her/his own any work, which she/he has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

Examples of cheating and dishonesty include (but are not limited to): plagiarism, illegal possession of examinations, the use of unauthorized notes or texts during an examination or quiz, obtaining information during an exam from the exam paper of another student, assisting others to cheat, alteration of grade records, illegal entry, or unauthorized presence in an office.

Your own words must be used to answer any assessment questions.

**Student Code of Conduct Policy:** Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others’ behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

**Students with disabilities,** including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

**Privacy:** The federal law guaranteeing student privacy is the policy of this professor as well as that of SPC. This means that I will not discuss your grade with anyone other than you. I will NOT discuss your grade with your parents, guardians, friends, etc.

**Non-Discrimination Statement:** South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

**Diversity Statement:** In this class, the teacher will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Title IX Pregnancy Accommodations Statement:** If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Health and Wellness Center. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Health and Wellness Center at 806-716-2529 or email [dburleson@southplainscollege.edu](mailto:dburleson@southplainscollege.edu) for assistance.

### Class Weekly Schedule:

	Mon	Tue	Wed	Thu	Fri
8 am	Lecture and Lab Sim Set		Lecture Posted		Quiz Posted
9	Posted Office Hours	Office Hours			Office Hours
10					
11					
12 pm			Mon Lecture Questions Due		Wed Lecture Questions Due
1					
2	Office Hours				
3					Quiz, Test and Lab Simulations Due
4					<b>SUNDAY</b>
5					11:59 pm

#### Final Thoughts:

- This is NOT a self-paced course. Even though there is flexibility as to when you watch lectures, take quizzes etc., the due dates and times are set and solid. Do not send me an email with an excuse for missed deadlines. After the deadline, a zero will be given for any blanks in the gradebook. Exceptions will be given only to documented medical emergencies.
- Although the quizzes and exams are “open book.” You must study, understand, and memorize just as you would with a traditional course. You will be presented the questions one at a time. Each whole exam is timed with approximately 45 seconds allotted per question. You cannot go back to questions once answered.  
If you are not VERY familiar with the material, you will run out of time.
- ANY evidence of live communication with another person (either in-person or online) during a quiz or exam is considered cheating and will result in a zero.
- I STRONGLY suggest **taking notes** as you listen to the lectures and then **rewriting them** as you **read a text etc.**
- My goal is your success. If you have any questions or concerns, ASK ME! Please! Anything that affects your performance as a student is important to me.

## Niederhauser Biology IN-PERSON General Weekly Schedule

**This is FYI only - so you know when I am not available.**

	Mon	Tue	Wed	Thu	Fri
8 am	1408 001 Lecture	1406 004 Lecture	1408 001 Lecture	1406 004 Lecture	
9	S80 Office Hours	S83 Office Hours	S80 1408 001	S83 1406 004	Office Hours
10			Lab S189	Lab S197	
11					
12 pm					
1	1408 002 Lecture		1408 002 Lecture		
2	S80 Office Hours		S80 1408 002		
3			Lab S189		
4					
5					

1408 Online Schedule*				
Unit	Week	Date	Lecture Topic	Lab Topic/Simulations
Introduction, Building Blocks of Life	1	Mon, Aug 29	Welcome/Intro - What is Life?	Microscopes, Scientific Method
		Wed, Aug 31	Life Organized/Chemistry for Biology	
		Fri, Sep 2		
	2	Mon, Sep 5	Labor Day	Metric System, Data Analysis
		Wed, Sep 7	Chemistry Continued/Molecules of Life: Carbs	
		Fri, Sep 9		
	3	Mon, Sep 12	Molecules of Life: Lipids	Chemical Composition of Cells
		Wed, Sep 14	Molecules of Life: Protein, DNA	
		Fri, Sep 16		
	4	Mon, Sep 19	Cell Structure	Cell Structure
		Wed, Sep 21	Cell Finish and Unit Review	
		Fri, Sep 23	<b>EXAM 1 Opens. Due Sunday Sep 25, 11:59 pm</b>	
The Working Cell	5	Mon, Sep 26	Cell Division (Mitosis)	Mitosis, Enzymes
		Wed, Sep 28	Cell at Work - Energy and Enzymes	
		Fri, Sep 30		
	6	Mon, Oct 3	Cellular Respiration	Diffusion and Osmosis
		Wed, Oct 5	Photosynthesis	
		Fri, Oct 7		
	7	Mon, Oct 10	Carbon and Energy in Ecosystems	Respiration, Photosynthesis
		Wed, Oct 12	Unit Review	
		Fri, Oct 14	<b>EXAM 2 Opens. Due Sunday Oct 16, 11:59 pm</b>	
Genetics	8	Mon, Oct 17	Meiosis	Meiosis, Genetic Problems
		Wed, Oct 19	Patterns of Inheritance Mendel	
		Fri, Oct 21		
	9	Mon, Oct 24	Inheritance - Beyond Mendel	Drosophila and Plant Genetics
		Wed, Oct 26		
		Fri, Oct 28	<b>EXAM 3 Opens. Due Sunday Oct 30, 11:59 pm</b>	
DNA	10	Mon, Oct 31	Structure of DNA	DNA Structure, Protein Synthesis, Mutation, Karyotypes
		Wed, Nov 2	Function of DNA/Viruses/Mutation	
		Fri, Nov 4		
	11	Mon, Nov 7	How Genes are Controlled	Gene Expression
		Wed, Nov 9	Cloning/Gene Cancer	
		Fri, Nov 11		
	12	Mon, Nov 14	DNA Technology	DNA Technology
		Wed, Nov 16	DNA Technology Applications	
		Fri, Nov 18	<b>EXAM 4 Opens. Due Sunday Nov 20, 11:59 pm</b>	
Evolution/ Ecology	13	Mon, Nov 21	Evolution by Natural Selection	No Lab
		Wed, Nov 23	Thanksgiving Break	
		Fri, Nov 25	Thanksgiving Break	
	14	Mon, Nov 28	Evolution Evidence	Evidence of Evolution
		Wed, Nov 30	Ecology Case study 1	
		Fri, Dec 2		
	15	Mon, Dec 5	Ecology Case study 2	TBA
		Wed, Dec 7	Wrap up and Semester Review	
		Fri, Dec 9	Final EXAM Opens. 8 am.	
		Tue, Dec 13	<b>Final EXAM DUE 11:59 pm</b>	

\*Topic dates are tentative. Exam dates are set.