

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

**Course Information**  
**Biology I for Non-Science Majors (BIOL 1408)**  
**Fall 2022**

INSTRUCTOR: Dr. Eric Niederhauser

OFFICE PHONE: 806 716-2321

EMAIL: [eniederhauser@southplainscollege.edu](mailto:eniederhauser@southplainscollege.edu). Please include the course number (1408) and section number 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 respond to emails received on Sundays on Monday.

OFFICE HOURS: Mon: 9:30 – Noon and 2:30 - 3:30; Tue 9:30 – Noon; Friday: 9:00 – 11:00.

**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.

**Course Implementation:**

PREREQUISITE: None. CREDIT: Four semester hours

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

REQUIRED LAB MANUAL: Download from Blackboard and print. You must bring it to lab.

**Blackboard:** Current grades, course information, lecture notes, links etc. will be available on Blackboard, accessed through <https://southplainscollege.blackboard.com>. You are responsible for checking Blackboard regularly.

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

**Grading**

EXAMS: There will be five exams given during the semester covering both lecture and lab. One exam will be online. The exams will be announced in advance and primarily cover lecture material but may include information from lab. The exams will be primarily multiple choice but will include fill-in-the blank, short answer or essay questions. The final exam will be comprehensive.

Missed exams: If you know in advance that you will be absent on an exam date, notify me ahead of time, it MAY be possible to take the exam at an alternate time. If you unexpectedly miss an exam and do not contact me within 24 hours, I will not consider a makeup exam and you will receive a zero for the exam.

IN-CLASS QUIZZES: There will be quizzes at the beginning of most classes. If you are late for class, you will not get credit for questions missed. There will be no in-class quiz makeups but at least three of the lowest in-class quiz grades will be dropped. Quizzes will use a remote clicker system.

ASSIGNMENTS: Graded assignments may be assigned. I will not accept them late.

LAB GRADES: Based on lab attendance and assignments.

**GRADING SUMMARY**

Grade Type	Percentage of Grade
Exams	60 %
In-Class Quizzes	20 %
Lab Grades/Assignments	20 %

*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.

**Attendance Policy:** Attendance is mandatory. Students are responsible for all information discussed during absences from class - regardless of the reason.

When absences become excessive and, in the opinion of the instructor, minimum course objectives cannot be met, the student will be withdrawn from the course. Any student with 5 absences or tardies will be withdrawn from the class. Please see the instructor should problems arise. In addition, an instructor is required to report when a student has missed every class during a fourteen consecutive calendar-day period (4 class meetings) excluding holidays.

Once a week, class meetings consists of lecture period AND a lab period; consequently, being absent from either class OR lab will count as an absence for the day and any work missed will receive a grade of zero. Labs cannot be made up.

COVID 19: If you are experiencing any of the following symptoms, please do not attend class and either seek medical attention or test for COVID-19.

- Cough, shortness of breath, difficulty breathing
- Fever or chills
- Muscles or body aches
- Vomiting or diarrhea
- New loss of taste and smell

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376. Proof of a positive test is required. A home test is sufficient, but you must submit a photo of the positive result. The date of test must be written on the test result and an ID included in the photo. If tested elsewhere (clinic, pharmacy, etc.), please submit a copy of the doctor's note or email notification. Results may be emailed to DeEtte Edens, BSN, RN at dedens@southplainscollege.edu.

You are clear to return to class without further assessment from DeEtte Edens, BSN, RN if you have completed the 5-day isolation period, symptoms have improved, and you are without fever for 24 hours without the use of fever-reducing medication.

You must communicate with DeEtte Edens, BSN, RN prior to your return date if still symptomatic at the end of the 5-day isolation.

To be excused from attendance requirements, the above procedure must be followed.

**Tardy Policy:** Arriving to class late is disruptive. If you are late, please come in quickly and quietly take your seat. A student who is consistently tardy will be withdrawn from the class. If you are late please see the instructor after class to ensure you were noted as present. See me if there is a problem or if you know you will be late. Barring emergency, there is no excuse for being tardy to lab. If you are late for lab you will lose participation credit for the lab.

**Classroom Conduct:** To create an effective learning environment, respect must be shown to your fellow students and to the instructor. Disruptive and disrespectful behavior will not be tolerated.

Disruptive and disrespectful behavior includes:

- Cell phone use. **Cell phones should not be in view at any time.**
- Earbuds in your ear during lecture or lab.
- Use of other electronic devices including laptops. Research shows that taking notes by hand is more effective. Tablets used horizontally on the table for note taking with a stylus are OK. I reserve the right to allow laptop use on an individual basis.
- Leaving class during lecture. **If you will need to leave early let me know.**
- Sleeping in class or lab.
- Eating in lab. Discrete food consumption in lecture is tolerated.
- Failure to follow general instructions.
- Talking out of turn, cursing, inappropriate gestures etc.

**You will receive a zero for the day's quiz for disruptive behavior** and may be asked to leave the classroom. If the poor behavior is deemed excessive the student may be withdrawn from the course.

**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.

You must use your own words on exams.

**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, Lubbock Centers (located at the Lubbock Downtown Center) 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.

**Lab Safety:** Each student will be informed/trained on the “Chemical Hygiene Plan (CHP) for Laboratories at South Plains College” during the first week of the semester. Each student will be required to acknowledge receipt of this information and be required to follow all procedures outlined by the instructor and/or staff of South Plains College.

**Material Safety Data Sheets (MSDS):** These data sheets detail any potential hazards associated with the chemicals used in the laboratory. The MSDS notebook is located in room 146 of the science building. All students are encouraged to read about the chemicals used in the lab in the MSDS notebook. Please ask the instructor if you need assistance.

**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.

**Campus Concealed Carry** - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: [http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php) Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

### Niederhauser General Weekly Schedule

	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 Lab		
3			S189		
4					
5					

1408 Fall 2022 Lecture Schedule				Laboratory Schedule	
Unit	Meeting #	Date	Topic	Week	Topic
Introduction, Building Blocks of Life	1	Mon, Aug 29	Welcome/Intro - What is Life?	1	Safety / Microscopes / Discovery Science
	2	Wed, Aug 31	Life Organized/Chemistry for Biology		
		Mon, Sep 5	Labor Day		
	3	Wed, Sep 7	Chemistry for Biology		
	4	Mon, Sep 12	Molecules of Life: Carbs, Lipids		
	5	Wed, Sep 14	Molecules of Life: Protein, DNA		
	6	Mon, Sep 19	Cell Structure		
	7	Wed, Sep 21	Catch Up and Review		
	8	Mon, Sep 26	<b>EXAM 1</b>		
	9	Wed, Sep 28	Cell Division (Mitosis)		
	10	Mon, Oct 3	Cell at Work - Energy and Enzymes		
	11	Wed, Oct 5	Cellular Respiration		
	12	Mon, Oct 10	Photosynthesis		
	13	Wed, Oct 12	Carbon and Energy in Ecosystems		
	The Working Cell	14	Mon, Oct 17		
15		Wed, Oct 19	Meiosis	8	Mitosis vs Meiosis
16		Mon, Oct 24	Patterns of Inheritance Mendel	9	Drosophila Start/ Genetic Problems
17		Wed, Oct 26	Inheritance - Beyond Mendel*		
18		Mon, Oct 31	Structure of DNA		
19		Wed, Nov 2	Function of DNA/Viruses/Mutation		
20		Mon, Nov 7	How Genes are Controlled		
21		Wed, Nov 9	Cloning/Gene Cancer		
22	Mon, Nov 14	DNA Technology			
23	Wed, Nov 16	DNA Technology Applications			
DNA	24	Mon, Nov 21	<b>EXAM 4</b>	12	Genes in a Bottle/ Micropipette Use
		Wed, Nov 23	Thanksgiving Break	13	No Lab
	25	Mon, Nov 28	Evolution by Natural Selection	14	DNA Fingerprinting
	26	Wed, Nov 30	Evolution Evidence		
	27	Mon, Dec 5	Ecology Case study		
28	Wed, Dec 7	Wrap up and Semester Review			
29	Dec 12-15	<b>Final EXAM</b>	15		
			<b>Final EXAM</b>		No Lab

\*Exam 3 Genetics. Online. Opens Friday Oct 28, 8 am. Closes Sunday Oct 30 11:59 pm