BIO 1406 (4:3:3)

General Biology I

Department of Biology

Division of Arts and Sciences

SOUTH PLAINS COLLEGE

Levelland Campus

Fall 2024

Instructor

Dr. Eric Niederhauser

# Course Information Biology I for Science Majors (BIOL 1406) Fall 2024

Instructor: Dr. Eric Niederhauser

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Office Hours: Mon, Tue, and Wed: 11:00 – Noon; Wed: 2:30 – 3:30; Thu: 1:30-2:30; Friday: 9:00 – 11:00.

**Course Description:** This course focuses on fundamental principles of living organisms including the chemistry of life, cell and molecular biology, genetics, and evolution. This is the first semester of an integrated course for majors in biological sciences and related studies, including the medical disciplines.

## **Course Implementation:**

PREREQUISITE: None. CREDIT: Four semester hours

RECOMMENDED TEXT: Campbell *Biology*, 12th Ed. by Urry et.al. <u>Others ARE acceptable</u>. REQUIRED LAB MANUAL: A file will be provided for you to download and print.

**Blackboard:** Grades, course information, lectures, links etc. will be available on Blackboard, accessed through https://southplainscollege.blackboard.com. You are responsible for checking Blackboard regularly. You can always see your current grade on Blackboard

**Communication:** If needed I will send announcements or reminders via email to your SPC email address. You are responsible for any information that is sent to your SPC email by me or the college, so please check them regularly.

### Grading

EXAMS: There will be four exams (3 mid-terms and 1 final) covering both lecture and lab. The exams will be multiple choice, true or false, fill-in-the blank, short answer and essay questions. The final exam will be comprehensive.

Do not miss exams. If you know in advance that you will be unavoidably absent on an exam date, notify the instructor ahead of time. It may be possible to take the exam at an alternate time. If you miss an exam due to an unforeseen circumstance and do not contact me within 24 hours, I will not consider a makeup exam. Failure to notify me will result in a zero for the exam.

IN-CLASS QUIZZES: There will be quizzes at the <u>beginning</u> of most classes that will address the previous lectures and lab. If you are late for class your quiz grade will suffer. <u>There will be no in-class quiz makeups</u>, but the three lowest in-class quiz grades will be dropped. Students who miss 4 or more quizzes (for any reason) will NOT have the lowest quiz grades dropped. Quizzes will use a remote clicker system.

LAB GRADES: Lab material is incorporated into Exams, Quizzes/Assignments. Credit will also be given for attendance (which is required). There are no lab makeups.

#### **GRADING SUMMARY**

Grade Type	Percentage of Grade
Exams	70 %
In-Class Quizzes	20 %
Lab Attendance/Assignments	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 4, 2024

This course must be completed with a grade of C or better for the student to take General Biology II (Biology 1407) at South Plains College.

### 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:** This course is designed to be an in-person course. Punctual and regular class attendance is mandatory. Once a week, class meetings consist of lecture period AND a lab period; consequently, failure to attend lecture OR lab will count as an absence and any work missed will receive a grade of zero. Labs cannot be made up. Students are responsible for all information discussed during absences from class - regardless of the reason.

If you intend to withdraw from the course, please see me first – do not just stop coming to class. When absences become excessive and, in the opinion of the instructor, minimum course objectives cannot be met, the student may be withdrawn from the course. That being said, it is the student's responsibility to withdraw from this course. Students who fail to attend will be assigned their earned letter grade at the end of the course. Grades are kept up to date, and guidance will be provided throughout the term to help students decide whether they need to drop the class. For more information regarding drops/withdrawals, please visit www.southplainscollege.edu/admission-aid/apply/schedulechanges.php.

**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. Notify me if there is a problem and 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:

- o Cell phone use. **Cell Phone use is not permitted**. Cell phones should be **out of sight** in lecture and lab. Do not text or answer calls during class or lab time.
- o 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. I reserve the right to allow laptop use on an individual basis.
- o Leaving class during lecture. If you will need to leave early let me know.
- o Sleeping in class or lab.
- o Eating in lab. Discrete food consumption in lecture is tolerated.
- o Failure to follow general instructions.
- o Talking out of turn, cursing, 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 during an examination or quiz, obtaining information during an exam from the textbook or 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.

**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 which may be incurred while utilizing various chemicals 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.

**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.

**Other Applicable Policies:** This webpage - <a href="https://www.southplainscollege.edu/syllabusstatements/">https://www.southplainscollege.edu/syllabusstatements/</a> has the official South Plains College statements about the following:

Intellectual exchange
Disabilities
Non-discrimination
Title V Pregnancy Accommodations
CARE Team
Campus Concealed Carry

		Final EXAM Dec 11, 10:15 am			
11	rCR Day 4	The Origin of Species	Wed, Dec 4	L	
21	BCB Day 3	The Evolution of Populations	Mon, Dec 2	16	ראסומנוסו
	IBA	Thanksgiving Break	Wed, Dec 27	14	
	TBA	Descent With Modification	Mon, Nov 25	77	
70	rioteiii riiigeipiiiitiiig	DNA Tech Applications	Wed, Nov 20	CT	
20	Droto in Eingarprinting	DNA Technology	Mon, Nov 18	21	
19,21	TCK Day 1	EXAM 3	Wed, Nov 13	7.1	
10 21	BCB Day 1	Regulation of Gene Expression	Mon, Nov 11	<b>C L</b>	
13,17,10,10	Simulation/Mutation	From Gene to Protein 2, Mutation, Viruses	Wed, Nov 6	11	DNA
15 17 19 16	Fly Analysis, Protein	Gene Expression 1, Transcription	Mon, Nov 4	1	Genetics,
12,14,10	Chromosomes, Genetic Problems	DNA Structure and Replication	Wed, Oct 30	OT	
12 14 16	DNA Extraction, Remove Flies,	Beyond Mendel	Mon, Oct 28	3	
13,17,10	Genetic Problems	Mendel and the Gene Idea	Wed, Oct 23	,	
13 17 16	Karyotypes, Drosophila Start,	Meiosis and Sexual Life Cycles	Mon, Oct 21	٥	
J, O, ±±	CC113, IVII CO313	EXAM 2	Wed, Oct 16	ď	
л 6 11	Calls Mitosis	Photosynthesis	Mon, Oct 14	×	
Ú	nespilation/ Filotosynthesis	Cellular Respiration	Wed, Oct 9	,	
D	Dospiration / Dhotosynthosis	Enzymes	Mon, Oct 7	7	Action
c	בוובאוופי	Introduction to Metabolism	Wed, Oct 2	c	The Cell In
0	Epsky	Membrane Structure and Function	Mon, Sep 30	J)	
`	Diriasion and Osinosis	EXAM 1	Wed, Sep 25	Ú	
7	Diffusion and Osmosis	The Cell Cycle (On Exam 2)	Mon, Sep 23	л	
2,3	ivieti ic 3ysteiii / Data Allaiysis	Cell Structure	Wed, Sep 18	4	
2 2	Motric System / Data Applysis	Proteins	Mon, Sep 16	V	
1	O'Baille Molecules	Lipids, Nucleic Acids	Wed, Sep 11	J	Life
		Organic Chemistry, Carbohydrates	Mon, Sep 9	υ	Chemistry of
	NO	Water and Life, Carbon	Wed, Sep 4	2	and
	200	Labor Day	Mon, Sep 2	J	Organization
[J,±,J	Method (Daphnia)	Chemistry for Biology	Wed, Sep 28	٠	
I C 1 E	Safety/Microscopes/Scientific	Introduction. Life Defined and Organized	Mon, Aug 26	1	
Ex.	Topic	Торіс	Date	Week	Unit
	Laboratory	Lecture			
	4	Bio 1406 Tentative Schedule Fall 2024			