BIO 1406 (4:3:3)

General Biology I

Department of Biology

Division of Arts and Sciences

SOUTH PLAINS COLLEGE

Levelland Campus

Spring 2019

Instructor

Dr. Eric Niederhauser

Course Information Biology I for Science Majors (BIOL 1406) Spring 2019

Instructor: Dr. Eric Niederhauser Office: S131; Phone: 806 716-2321; Email: eniederhauser@southplainscollege.edu Office Hours: Monday: 9:30 – 12:00, 2:30 – 3:30 Tuesday: 8:30 – 10:00 Friday: 8:00 – 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*, 11th Ed. by Urry et.al. <u>Others ARE acceptable</u>. REQUIRED LAB MANUAL: *General Biology I, Lab Manual*, by Etheredge and Bingham (Available only at the SPC bookstore)

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. For help with Blackboard see me or email: blackboard@southplainscollege.edu.

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 four exams given during the semester 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 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 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 lecture and lab. If you are late for class you will receive a zero for that day's quiz. <u>There will be no in-class</u> <u>quiz makeups</u> but at least three of the lowest in-class quiz grades will be dropped. Students with 4 or more absences AND tardies will NOT have the lowest quiz grades dropped. Quizzes will use a remote clicker system.

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

LAB GRADES: Lab material is incorporated into Exams, Quizzes/Assignments.

GRADING SUMMARY

Grade Type	Percentage of Grade
Exams	80 %
In-Class Quizzes/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: April 25, 2018

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

Resources for help: 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 and South Plains College. We will do everything we can to support you and help you succeed.

Specific places to seek help depend on the factors that are affecting your performance:

ACADEMIC: Instructor, Tutors, Learning Center - 3rd floor library building.

PERSONAL: Health & Wellness Center (8 free counseling appointments per year).

HEALTH: Student Health Clinic (free for students with 6 or more credit hours).

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.

General Attendance Policy: Punctual and regular class attendance is mandatory. Students are responsible for all class work covered during absences from class, even in cases in which the absence was unavoidable. When situations such as illness, weather, an official college trip, or a death in the family causes one absence, it is polite but not necessary to let the instructor know.

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. <u>Any student with 5 absences or tardies will be withdrawn from the class</u> – with the grade of "F." In addition, an instructor is required to initiate a student's administrative withdrawal when the student has missed every class during a fourteen consecutive calendar - day period (4 class meetings) excluding holidays. If you intend to withdraw from the course, please see me and officially withdraw. Do not just stop coming to class. To avoid an unexpected failing grade, meet with the instructor should problems arise.

Once a week, class meetings consist of lecture period AND a lab period; consequently, being absent from either class OR LAB will count as an absence.

If something extraordinary arises during the semester, I will certainly take this into consideration and some exception to the attendance policy may be made.

A student who does not attend a class by the 12th day of classes will automatically be deleted from the class rolls.

Tardy Policy: Arriving to class late is disruptive. If you are late, please come in quickly and quietly take your seat. You will not receive credit for the in-class quiz. A student who is consistently tardy will be withdrawn from the class. If you are tardy 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.

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. All cell phones and other electronic devices should be turned OFF inside the classrooms both lecture and lab. Cell phones should not be in view (including in the cubbyhole of the lab desks!) at any time. If your cell phone rings or buzzes, is being used during class for text messaging, or if you get up from class to answer a phone call, a zero will be given for the day's quiz.
- 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.
- 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, 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.

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.

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.

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.

Campus Concealed Carry - South Plains College permits the lawful carry of concealed handguns in accordance with Texas state law, and Texas Senate Bill 11. Individuals possessing a valid License to Carry permit, or the formerly issued Concealed Handgun License, may carry a concealed handgun at all campus locations except for the following.

• Natatorium

For a complete list of campus carry exclusions zones by event, please visit http://www.southplainscollege.edu/campuscarry.php

			Final EXAM		
19	PCR Day 2	24	Tue, Apr 30 The Origin of Species Thur, May 2 Evolution Wrap up and Semester Review	15	
	TBA	22 23	Tue, Apr 23 Descent With Modification Thur, Apr 25 The Evolution of Populations	14	Evolution
18	Protein Fingerprinting	20/21	Tue, Apr 16 DNA Technology Thur, Apr 18 DNA Tech Applications	13	
17, 19	PCR Day 1	18	Tue, Apr 9 EXAM 3 Thur, Apr 11 Regulation of Gene Expression	12	
12, 16	Fly Analysis, Protein Simulation, Karyotypes, Genetic Problems	17	Tue, Apr 2 From Gene to Protein Thur, Apr 4 From Gene to Protein, Mutation, Viruses,	11	Genetics, DNA
13, 14	Remove Flies, Genetic Problems	15 16	Tue, Mar 26 Beyond Mendel. DNA Structure and Replication Thur, Mar 28 DNA Replication 2, Gene Expression 1	10	
15	DNA Extraction, Drosophila Start	13 14	Tue, Mar 19 Meiosis and Sexual Life Cycles Thur, Mar 21 Mendel and the Gene Idea	6	
			Mar 11 - 15 Spring Break		
	TBA	55	Tue, Mar 5 Biomass, Energy in Ecosystems (Pgs. 1236-50) Thur, Mar 7 EXAM 2	8	
9	Respiration/ Photosynthesis	9 10	Tue, Feb 26 Cellular Respiration Thur, Feb 28 Photosynthesis	7	Action
8	Enzymes	8	Tue, Feb 19 Introduction to Metabolism Thur, Feb 21 Enzymes	6	The Cell In
7	Diffusion and Osmosis	7	Tue, Feb 12 EXAM 1 Thur, Feb 14 Membrane Structure and Function	S	
6, 11	Cells, Mitosis	6 12	Cell Structure The Cell Cycle (On exar	4	
4	Organic Molecules	5	Tue, Jan 29 Lipids, Nucleic Acids Thur, Jan 31 Proteins	3	and Chemistry of Life
5	Microscopes/Scientific Method (Daphnia)	3 4	Tue, Jan 22 Water and Life, Carbon Thur, Jan 24 Organic Chemistry, Carbohydrates	2	Organization
LS - 3	Safety/ The Nature of Science	1 2	Tue, Jan 15 Introduction. Life Defined and Organized Thur, Jan 17 Chemistry for Biology	1	
Ex.	Laboratory Topic	Chapter	Lecture C Date Topic	Week	Unit
			Bio 1406 Tentative Schedule Spring 2019		