

GENERAL COURSE INFORMATION
BIOL 1408 GENERAL BIOLOGY I (NON-MAJORS)
FALL 2018

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Office Hours: 7:40-7:55 a.m.; 3:10-4:00 p.m.

Monday-Friday 7:40 – 7:50 a.m. or scheduled with professor for after school hours.

Course Description:

The general biology course is devoted to principles shared by all organisms. These principles are cell biology, energy, genetics, evolution, and ecology. This course is suitable as a required lab science for non- biology majors.

Course Implementation:

PREREQUISITE: None

CREDIT: Four Semester Hours

TEXT: Campbell, Neil and Reece, Jane B. 2008. *AP Edition Biology*, Eighth Edition, San Francisco, CA: Pearson Benjamin Cummings.

LAB MANUAL: Labs will be provided throughout the semester by the professor.

Course Objectives:

Lab exercises will be handed out in lab, so you will not need to purchase anything for lab.

- A. To introduce basic biological principles through an integrated approach.
- B. To investigate the cellular processes of living organisms with an emphasis on biological chemistry applications.
- C. To investigate the unifying themes and key concepts of the different types of organisms.
- D. To acquaint the student with the anatomy, function, genetics and evolution of different types of organisms.
- E. To instill an appreciation of the variety and diversity of major organism groups.
- F. To allow laboratory investigation of topics covered.

Class format:

The format of this class will consist of lectures, discussions, and field study experiences.

To be prepared for class you will be responsible for reading chapters in the book and taking quizzes over that topic. In class, we will discuss specific objectives, collaborative learning, assignments, have in class quizzes, and labs.

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. Punctual and regular class and lab attendance is required of all students. Students are responsible for all class work covered during absences from class, even in cases in which they are able to satisfy the instructor that the absence was unavoidable. Excessive tardiness will not be tolerated. When unavoidable situations such as illness, weather, an official college trip, or a death in the family causes absences, I may permit the student to make up class work missed. In such cases it is the student's responsibility to complete the work missed within one week of their return to class.

Absence Policy: When absences become excessive, minimum course objectives cannot be met and the student will be withdrawn from the course.

Tardy Policy: Excessive tardiness will not be tolerated. A student, who is consistently tardy, disturbs class, is disrespectful and rude, and will be withdrawn (dropped) from the class.

Grades: There will be quizzes, exams, group assignments, laboratory reports, and laboratory practicals.

Exams: The exams will be announced in advance and will be primarily classroom material with a lab material. If it is known in advance that an absence will occur on an exam date, and the instructor is notified ahead of time, it may be possible, under special circumstances, to take the exam at an alternate time. Otherwise the missed exam will count as a zero when computing the semester average. Due to the complexity and time involved in setting up lab exams with microscopes and specimens involved, this policy is rigidly adhered to. **DO NOT MISS EXAMS!!!**

Quizzes:

Reading Quizzes: There will be assigned reading quizzes over selected chapter(s).

Homework: Homework activities will be assigned (genetics problems, or group assignments, reading, laboratory reports).

Discussions: Student led discussions will occur at various points throughout the semester. Individual or group research will be required for certain topics. Quizzes will be held over materials discussed.

Class Activities: Various demo labs will be held as well as laboratory procedures will reinforce readings and material currently being covered. Points earned in these activities will accumulate with other Participation categories.

Summary of Grades:

Exams	60%
Quizzes /Homework	20%
Laboratory	20%
Total	100%
Letter Grade	Course Average
A	90>
B	80-89
C	70-79
D	60-69
F	<59

The last day to drop this course is: to be announced

Study Aids: Peer Tutors may be available for one-on-one tutoring sessions that are free of charge. Contact the instructor or the Counseling Center for more information.

ADA Statement: 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 through the Guidance and Counseling Centers at Reese Center (Building 8) [716-4606](tel:716-4606), or Levelland (Student Services Building) [716-2577](tel:716-2577).

Academic Integrity: It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his own any work, which 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.

Dishonesty (cheating) of any kind on examinations and quizzes on written assignments, 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 are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of course work as his own.

Dismissal Policy: A high standard of conduct is expected of all students. It is assumed that obedience to the law, respect for properly constituted authority, personal honor, integrity, and common sense will guide the actions of each member of this class. Any student who fails to perform to expected standards will be asked to withdraw from the class.

Electronic devices (cell phones, text messaging devices, music devices, etc): ALL electronic devices need to be in the off and/or silent mode -- no vibrating either. All electronic devices will be put away during class including exams. If the electronic device “rings” or “buzzes,” is being used during class for text messaging or a student gets up from class to answer a phone call, 10 points will be deducted from the students next major exam grade per incident.

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 (which means that I will NOT discuss your grade with your parents, guardians, friends, etc.)

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences 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, 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.

Lab Safety: Each student will be informed/trained on the “Chemical Hygiene Plan (CHP) for Laboratories at South Plains College” documentation and training 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.

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 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.

Core Objectives: We will cover: Communication Skills, Critical Thinking, Empirical and Quantitative Skills, and Teamwork,

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Biology I for Non-majors Section/Major Exam Topics and Reading Assignments:
Smaller Exams will be administered at the end of each chapter as well as quizzes.

Tentative Dates for Chapters/Reading Assignments/Exams/Labs

Dates	Topics	Lab
August 20-29	Chapter 1-Introduction to Biology	Animal Behavior Lab
<i>August 29</i>	<i>Exam</i>	
August 30-Sept. 19	Chapter 52 Population Ecology	Ecology Sampling Lab Dissolved Oxygen & Primary Productivity Lab
	Chapter 53 Community Ecology	
	Chapter 54 Ecosystems	
	Chapter 55 Conservation Biology	
	<i>Exam</i>	
Sept 19-Sept 26	Chapter 2-5 Chemistry of Life	Biomolecule Lab Enzyme Catalysis Lab
	<i>Exam</i>	
Sept 26-Oct. 2	Chapter 6: Cells	Microscopy Lab
	<i>Exam</i>	
Oct. 3-Oct. 12	Chapter 7: Membrane Structure	Membrane Structure Lab Diffusion/Osmosis Lab
	Chapter 11 Cell Communication	
	Chapter 44 Osmoregulation and Excretion	
	Chapter 45 Hormone and Endocrine System	
	<i>Exam</i>	
Oct 15-Oct 26	Chapter 8 Introduction to Metabolism	Cellular Respiration Lab Pigments & Photosynthesis Lab
	Chapter 9-10 Cellular Respiration/Photosynthesis	
	<i>Exam</i>	
Oct 29-Nov 2	Chapter 12 Cell Cycle	Mitosis Lab Spermatogenesis/Oogenesis Lab
	Chapter 13 Meiosis	
	Chapter 46 Animal Reproduction	
	<i>Exam</i>	
Nov. 5-13	Chapter 14 Mendel and Genetics	Corn Genetic Lab Karyotype Lab
	Chapter 15 Chromosomal Basis	
	<i>Exam</i>	
Nov. 6-30	Chapter 16 Molecular Basis	Molecular Biology Lab Transformation Lab
	Chapter 17 From Gene to Protein	
	Chapter 18 Regulation of Gene Expression	
	Chapter 20 Biotechnology	
	<i>Exam</i>	
Dec 3-12	Chapter 22 Descent with Modification	Biogeography Lab Natural Selection Lab Population Evolution Lab Phylogenetics Lab
	Chapter 23 Evolution of Populations	
	Chapter 24 Origin of Species	

	Chapter 25 Tracing Phylogeny	Blast Genome Lab
	Chapter 26 Early Earth and Origin of Life	
<i>Dec 13</i>	<i>Exam</i>	

List of Labs

Animal Behavior Lab