

Welcome to BIO 11
Concepts of Biology



Professor Zannie Dallara M.Sc.

Biology 11 – Fall 2015

- **For Today:**
 - Course intro / Syllabus
 - What is Biology?
- **For next time:**
 - **What is Life?**
 - Scientific method
 - Classifications
 - Size & Scale
- **Announcements:**
 - Welcome to Biology!
 - Start reading your text
 - Be present & on time to lab to keep your seat!



About Me

- Name: Zannie Dallara
- Before coming to BC
 - Wildlife biologist
 - Turtle growth
 - Taught labs at SSU for 3^{yrs} and Santa Rosa JC and High School for 3^{yrs}
 - Zoo Keeper
 - Vet tech
 - Farm Manager



Webpage:
<http://zanniedallarasciencepage.weebly.com/>



What is Intro. to the Principles of Biology?

- A Laboratory Science course
- Lecture two times/week
- Lab meets once/week
- Must go on assigned day

CRN #71591	CRN #72499	CRN #72500
lec MW 1-2:25pm (95-30)	lec TH 11:15-12:30pm (95-84)	lec TH 11:15-12:30pm (95-84)
lab M 2:25-5:45pm (95-30)	lab T 1-4:10pm (95-30)	lab TH 1-4:10pm (95-30)

You will be expected to participate!

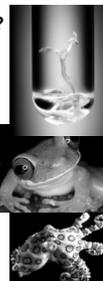


What is BIOL 11?

Topics we will discuss:

- The scientific method
- Characteristics of Life
- Chemistry and macromolecules as it relates to biology
- Cells structure and function: division, metabolism
- Plant anatomy and physiology & Photosynthesis
- DNA structure and Function
- Genetics, Inheritance & Cancer
- Populations & Speciation
- Ecology
- Animals: Immune and Digestive System

I have the goal of focusing on current material on each and how it relates to each of us

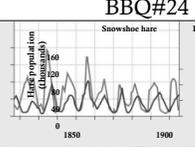


Supplies you Will Need

1. Textbook: Online for Free of Amazon
2. Bio 11 Lab Book
3. Blue Book
4. 100Q Scantrons



BBQ#24



Rubric:
It will not be posted on the webpage.

Include:

- Population cycling
- Boom/Bust
- Lag Time
- Predator
- Prey

• Explain the Population Ecology Behind the Linx and the Hare

Where to Find Me

Professor: A. "Zannie" Dallara, M.Sc.
Bakersfield Campus SE-43C
Email: Alexandra.Dallara@bakersfieldcollege.edu
Homepage: <http://zanniedallarasciencepage.weebly.com/>
Office Hours:

Office Hours			
Monday 11-12:30AM	Tuesday	Wednesday 2:30-4:30PM	Thursday 9:30-11:00AM

Syllabus – Course Description

- **Course Description:** This is a non-majors introductory course, which applies biological concepts to issues of everyday life. Concepts considered include scientific method; ecosystems and energy flow; organization, structure, function, behavior and evolution of organisms; inheritance; disease; ethics.
- **Prerequisite:** Reading Level 5 or 6

Syllabus - Time Commitment

- **Time Commitment:** For all college classes you are expected to complete approximately 2-3 hours per week outside of class for every 1 hour spent in lecture. For Bio 10, that is approximately **6-9 hours EVERY WEEK** of study time.
- Depending on your level of preparation that may or may not be enough time for you to earn the grade you want.

Syllabus - Learning Outcomes

- **Student Learning Outcomes** (what you will be able to do by the end of the semester)
 1. **The Scientific Method:** The students will be able to research a topic, design experiments, synthesize and evaluate the information, justify and express their opinions.
 2. **Cell Theory:** The students will be able to identify various cells and their structural components and differentiate the functions of each of their components.
 3. **DNA and Heredity:** The students will be able to 1) understand the significance of DNA as the basis for heredity, structure, function and disease in living organisms; 2) describe the DNA molecule and explain how it is used in living systems to create proteins; and 3) describe how proteins function in living cells.
 4. **Basic Human Anatomy and Physiology:** The students will be able to describe the organs found in selected human organ systems, then explain the role played by each organ in the overall functioning of that system.

Syllabus - Learning Outcomes

- **Student Learning Outcomes** (what you will be able to do by the end of the semester)
 5. **Diversity of Organisms:** The students will be able to compare and contrast characteristics of various organisms particularly related to energy sources (feeding style), cellular composition, reproduction and relationship to the ecosystem.
 6. **Ecology and the Environment:** The students will be able to 1) describe the flow of energy through the ecosystem, then construct a food web, placing specific species of organisms at each level; 2) choose a common ecosystem disturbance of human origin and predict the effects of that disturbance on a food web; and 3) understand the complexity of ecosystems and environmental issues.
 7. **Real World and Current Event Applications:** The students will be able to 1) recognize, value and apply major biological concepts contributing to current issues in the biological realm; and 2) apply critical thinking skills to formulate and defend a position on a controversial issue of biological importance.

Syllabus

- **Attendance:** If a student misses more than two class sessions, please be aware that on the third absence, s/he may be **dropped** from the class;
 - However, this is not a guarantee that a student will be dropped.
 - Students who choose not to continue the course are responsible for turning in a drop card to the admissions office or online.
 - Failure to officially drop the course may result in an "F". If you miss work after the deadline to drop and have an acceptable reason (like hospitalization), an "Incomplete" may be more appropriate. When in doubt, ask.

Syllabus - Exams

- **Exams:** You may make-up an exam only under very extraordinary circumstances.
 - You must contact the instructor with your request **before the exam begins**.
 - Instructor approval and written verification (such as a doctor's note) is required.
 - You must take the final to pass the class.
 - If you are too sick to take the final you may request an **incomplete**.

Syllabus – Grading

- **Grading:** Your grade will be based on your total number of points as compared to the total number of points available for the entire semester. The following is an approximate break down of the points:

Grading

This course operates on a subjective point system. Grades will be assigned based on the following accumulated point scale.

3 Lectures Exams @100	300
1 Lecture Final @100	100
1 Lab Presentation @100	100
7 Lab Quizzes @10	70
13 Lab Participation @5	65
Homework Assignments	80
Chemistry Lab @15	
Respiration Report @30	
Genetics Problems @20	
Case Study @15	
1 Project @30	30
4 Blue Book Collections @25 (collected at the start of each exam)	100

Grade Scale:
845 = 38+ A
760 = 47+ B
675 = 56+ C
590 = 65+ D
505 = 74+ F

Total Points Possible: 845

Syllabus – Lab

- **Labs:** The lab is an integral part of this course. **You are expected to read both the lab manual assignment and the text reading assignment prior to coming to lab.**
 - Use the information from your reading and from lecture to fill in some of the answers to the lab before arriving.
 - Please bring your entire lab manual to each lab, we sometimes need other sections other than the current week.
 - Your textbook is not required for lab, but can occasionally be helpful.
 - If you miss a lab it is sometimes possible to attend one of my other lab sections for that week, otherwise, you will not be able to make up the assignment for that lab.
 - Please talk to me before attending another section.
 - **Attendance:** Missed labs cannot be made up. Any student who misses **more than three labs** for any reason before the final drop date will be dropped from the course. If the fourth absence occurs after the final drop date, that student will receive an "F" in the course.

Syllabus – Lab Safety

- **Lab Safety:** Safety protocols will be explained in lab on the first day. Failure to follow safety procedures or mishandling of laboratory equipment will result in suspension of up to two lab periods.
 - Repeated offences will result in being expelled from the class.



Syllabus – Cheating Academic Integrity



- Cheating:** I expect students to comply with universal guidelines of academic integrity. This refers to cheating on exams as well as plagiarism (copying the work of others and turning it in as your own).
- All parties involved in cheating or plagiarism will be given a zero for that assignment and may be suspended from class for two class periods.
- You may not wear headphones or use or look at any electronic device (including cell phones) during exams;
- Doing so will be deemed cheating and you will receive zero points for the exam/assignment and be reported to the Dean.
 - This includes blue books

Details of the student code of conduct can be found here: <https://www.bakersfieldcollege.edu/campus/student-conduct>

Syllabus – Classroom Etiquette

Classroom Etiquette: All students shall comply with the standards of conduct for the college.

- If a student disrupts the learning environment in any way, s/he will be asked to leave the class and will be subject to further disciplinary action.
- Please turn off all cell phones before coming into class.
- If you wish to use a laptop to take notes do not use the web or other programs in class. This is disruptive to students around you. If you use your laptop in this way you will lose the option of using your laptop in class. Everyone using a computer to take notes must sit in the back row of the class to minimize disruption.



Syllabus – Emergency Evacuation

Emergency Evacuation Plan:

- In the event of an emergency during class that requires evacuation of the building, please leave the class immediately, but calmly. We will meet outside the classroom. I will take roll to make sure everyone got out safely so please check in with me immediately.
- If you are a student with a disability who may need assistance in an evacuation, please see me during my office hours as soon as possible so we can discuss an evacuation plan.



Syllabus – Accommodations for Students with Disabilities

Accommodations for Students with Disabilities:

- Students with disabilities who believe they may need accommodations in this class are encouraged to contact Disabled Student Programs & Services located at Student Services Building, 1st Floor, Counseling Center (661-395-4334), as soon as possible to better ensure such accommodations are implemented in a timely fashion. Please discuss approved accommodations with me.

An example email:



- Subject: class full?**
- hey I assume it's full by now but if not let me know with a late add code.
- A better alternative:**

Hello Ms. Dallara,

My name is Cleetus. I am waitlisted in your Bio 11 course and was wondering if there is any space left in your Monday/Wednesday section #124. If so, please let me know how to get a late add code.

Thanks a lot,
Cleetus Theman
 BIOL31-1234

Remind Text App

A. Dallara would like you to join BC Biology II CRN #71091 M/W Lab M!



To receive messages via text, text @bcbi to 81010. You can opt out of messages at anytime by replying, unsubscribe @bcbi.

Trouble using 81010? Try texting @bcbi to (841) 369-8432 instead.

Remind Text App

A. Dallara would like you to join BC Biology 11 CRN #72499 T/TH, Lab T!

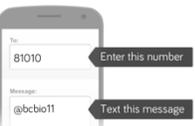


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Remind Text App

A. Dallara would like you to join BC Bio 11 CRN #72500 T/TH Lab Th!



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Biology

= the scientific study of life.

