

**Pima Community College**  
**East Campus 8181 East Irvington Road**  
**BIO 100 Biology Concepts Express Course Fall 2007**  
**Course Syllabus CRN 12541**

**Instructor:** Sandy Bejarano  
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**Attendance:** Each of you needs to examine your work and family responsibilities to determine whether you are prepared to undertake the time commitments for this course. Full attendance is extremely important and will count in the final grade calculation.

**Class Schedule:** BIO 100 Biology Concepts /CRN 12541/ Mon/Wed/ 7:00 pm - 10:00 pm / E7 - 707  
Classes are a combination of lecture, discussion, exercises, and presentations

**Text:** Biology Science for Life, by Belk and Borden

**Prerequisites:** None

**Course Description:** Basic principles and concepts of biology. Includes methods of scientific inquiry, cell structure and chemistry, metabolism, reproduction, genetics, molecular biology evolution, and ecology.

**Course Objectives:**

1. Perform activities to demonstrate improvement in the general education goals of communication, critical thinking and mathematics.
2. Describe characteristics of living organisms that distinguish them from non-living constituents of the biosphere.
3. Utilize scientific methods to formulate and answer questions and discuss its strengths and limitations.
4. Describe and explain the properties and roles of biologically important molecules, including proteins, carbohydrates, lipids, and nucleic acids.
5. Describe the structure and function of cells and cellular components in single and multicellular organisms.
6. Describe how energy is acquired and used by living organisms.
7. Describe how traits are inherited and apply patterns of inheritance.
8. Explain the molecular biology of genes and their expression.
9. Describe potential impacts of genetic technologies on society.
10. Explain possible origins of life on Earth and mechanism(s) of evolution that help us account for the amazing diversity of life we now find on our planet.
11. Explain how the flow of energy through an ecosystem influences its structure.
12. Describe how organisms interact with each other and their environment.
13. Apply biological and ecological principles to discuss current issues in human health, and human impact on the environment

**Grading Policy:**

	Points
Exams (50 x 3)	150
Biology in Art and Music	10
Field Trip	10
Physiology presentation	15
Exercises	100
Participation	15
Total	300

The final grade for the course will be determined by the percentage of total points earned by each student. 90% to 100% = A, 80% to 89% = B, 70% to 79% = C, 60% to 69% = D, 0% to 59% = F.

270 – 300 = A

240 – 269 = B

210 - 239 = C

180 - 209 = D

Less than 180 = F

For a student to receive a grade of an “I” or Incomplete, at least 75% of the requirements for the course must be met. Additionally, the student must meet with me to discuss this option.

The last day to withdraw from the class is \_\_\_\_\_. If a student fails to attend class, or fails to withdraw herself/himself from the course, the student will be issued the grade earned based on the number of points possible for the course.

**Exams:** There are 3, 50 point (1 hour/timed) exams throughout the session. Each exam will be in the testing center covering material from lectures. **The exam must be taken by the deadline specified in the schedule.** Failure to meet the deadline will result in a grade of a zero. Exams include true/false, matching and multiple choice questions. There is no opportunity to make-up an Exam. Exams cannot be re-taken.

**Exercises:** Several in-class and take-home exercises will be conducted. These exercises are worth one third of your grade. Students must participate in the exercises and hand in the worksheet to receive credit. The grading criteria for this work will depend on actual participation of the exercise, completion of the worksheets and handing in the worksheet on time. Exercises cannot be made-up.

**Assignments:** There are 3 assignments. The first is a report on Biology in Art and Music, one Field Trip Report, and a group PowerPoint/oral presentation on physiology.

**Participation:** Your participation grade is comprised of attending class, actively engaging in the exercises, and submitting a completed “BIO 100 Express Hour Verification” form.

“If you have a disability that requires special accommodations, you are strongly urged to notify me at the beginning of the term so that reasonable accommodations can be made in a timely manner.”

**Plagiarism:** If plagiarism is suspected, you will be called in to discuss your writing with your instructor. Any student using the direct words of others (be they students or some source) will be penalized with a zero for that assignment.

**Ethics:** Breaches in scholastic ethics, such as cheating on an exam, will be dealt with severely. Students caught cheating, or attempting to cheat, on an exam will have a “zero” recorded for that exam.

**Can I bring anyone to class?** There is a strict campus policy that only enrolled students are allowed in the classroom. This also means you can’t leave children under 18 years of age in the cafeteria or hallways waiting for you to get out of class. Don’t ask me to make exceptions, I can’t.

**What about safety procedures?** Some labs will require strict safety procedures to be followed. I will explain all safety procedures before each lab. There’s one big rule in the lab, never pour anything down the drains. There will be disposal containers for everything!

**Electronic Devices:** Please, as a courtesy to the class, turn off or switch to “silent” or vibrate electronic devices before coming into class.

**This syllabus is subject to change without prior notice or discussion.**

# BIO 100 Grade Calculation

<b>Entry</b>	<b>Total Points</b>	<b>Points Earned</b>
<b>Testing</b>		
Exam 1	50	_____
Exam 2	50	_____
Exam 3	50	_____
<b>Assignments</b>		
Biology in Art and Music	10	_____
Physiology Presentation	15	_____
Field Trip	10	_____
<b>Exercises</b>		
In class	100	_____
Take home		
<b>Participation</b>		
Class Attendance Verification Form	15	_____
Total	300	_____