

Course: **Biology 100 section , Principles of Biological Science (4 units)**
 Summer Session 2013

Instructor: J. R. Pendley, Professor Emeritus
Email: pendley@imperial.edu

Class Schedule:

5/20-6/20 Final on 6/21	Section 30009/	Section 30010
Lectures- Rm. 2717	DAILY 0730-0940	DAILY 1230-1440
Lab – Rm. 2717	DAILY 1000-1210	DAILY 1500-1710

6/24-7/31 Final on 8/1	Section 30067	Section 30068
Lectures- Rm. 2717	MTWR 0730-0940	MTWR 1230-1440
Lab – Rm. 2717	MTWR 1000-1210	MTWR 1500-1710

****please READ the laboratory exercise before your scheduled lab session!!!****

Required Materials:

Textbook: Biology, the Essentials. by Marielle Hoefnagels ISBN978-0-07-809692-1
Lab Manual: Principles of Biological Science BIOL100 Lab Manual

Course Description:

A comprehensive one semester general biology course for non-majors. Includes life from the molecular to the organismic level of both plants and animals and their interactions within the environment. Special emphasis is put on human biology within appropriate areas of study. Appropriate for general education as well as nursing, pre-professional, and higher level biology courses. Includes laboratory component.

Pre-requisites: MATH 090

Course objectives

1. The student will identify the basic characteristics of all living things.
2. The student will name basic chemical aspects that pertain to life and the concept of homeostasis.
3. The student will describe the components of the cell including their structure and function.
4. The student will explain the light and dark reactions of photosynthesis.
5. The student will explain cellular respiration and its relations to the entire organism.
6. The student will demonstrate knowledge of the structure and function of DNA and RNA.
7. The student will explain protein synthesis and site the central dogma of cell biology.
8. The students will compare and contrast the fundamentals of asexual and sexual reproduction.
9. The student will define ecology and the overall impact of ecology to conditions in the environment.
10. The student will solve problems in general genetics and in human genetics and relate advances in genetics to social responsibility of geneticists.
11. The student will identify and relate the functions of the major systems of the human body; the interrelationship among body systems and nature of disease.

Student Learning Outcomes

Upon completion of this course, students will be able to:

1. respond to critical thinking applications of biological scenarios. (ILO2)
2. attend and arrive on time for class and lab meetings. (ILO3)
3. communicate ideas in biology clearly. (ILO1)
4. perform lab activities properly and correctly analyze lab data. (ILO1, ILO2)

important announcement for DSPS Students:

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP & S) office as soon as possible.

DSP&S Office
Room 2117, Health Sciences Building
(760) 355-6312

Assignments and Grading: remember, I do NOT “hand out” grades. You earn your grade!!! Your grade is the result of what YOU do.

1. Four examinations: 4 midterm exams and one final examination.
100 points each. Based on the materials covered in the textbook and lectures.

Note: All exams are to be taken on the scheduled dates as indicated on the schedule. Lectures are an essential part of this course; therefore, attendance and participation are required.

2. Laboratory Portion: Based on attendance and participation in the laboratory sessions, laboratory exercises/reports(10-20pts possible each).

4. There will also be several in-class exercises and/or quizzes worth 10-20points each.

5. Attendance- If I have to be here to fulfill my obligations, so do you for the class and grade.

Grading Scale: The student's semester grade will be determined by the total number of points the student has earned in both the laboratory and lecture sections.

A=at least 90% of total points

B=at least 80% “

C=at least 70% “

D=at least 60% “

F= below 60% “

Make up Policy: there will be NO make-up labs

A student may take a make up test in the next class period, only if I am forced to by college rule, court appearance (excuse or document needed), extreme personal need (my decision)

Note: An incomplete grade will be assigned only after a written request by the student stating the reasons why the student cannot complete the course as stipulated in the course syllabus. If the student does not make a written request for an incomplete grade, the student will be assigned a grade commensurate with the total points the student has earned up to the time the grades are turned into the Registrar's office.

Course Rules/Regulations/Policies:

1. Attendance Policy: **BE ON TIME for Lecture** AND the lab sessions.
2. Active participation in classroom discussions: All students are expected to participate in classroom discussions, **in a voice easily heard by all in the room** on the various topics presented in class. Learning is not a one-way process -- it requires active involvement in the subject. Expect to be asked for your comment or answer orally, as the lecture goes forward.
3. Classroom Behavior and Conduct: The Golden Rule : Treat others how you would like to be treated, I intend to follow it as well.

Note: **While in the classroom, cellular phones are to be turned off or set on silent mode. Off during Tests or Quizzes. A ringing cell phone costs you 10 points of your total. In fairness , if mine rings during lecture the class members present will gain 10 points. If you are on call , tell me before the class starts.**

3. WITHDRAWAL POLICY:

If you wish to drop this class you must do so by going through the proper procedure (ie- thru WebStar) by the proper deadlines. Don't just stop showing up!!! **If you simply stop showing up instead of "officially" dropping the class thru Webstar, you will receive a grade of "F" for the class!**

4. Plagiarism and Cheating: College specific action will be taken. Cheating is basically using other people's work as your own. This includes plagiarism and copying other people's exam answers or assignments. Cheating also includes helping others to cheat (like providing your answers to others). This is not the same as studying together.

If you are a DSPS student, please inform me ASAP and Check with your counselor to remember to submit the forms to me in writing.