

**Course: Biology 100 section 10207/08, Principles of Biological Science (4 units)
-Fall 2013**

Instructor: Eddie Chang
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Tentative Office Hours:

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| Monday/Wednesday | 1245-125p |
| Tuesday | 505-615p (in 2712) |
| Thursday 1130a-12n (2778); 515-615p (2712) | |
| Other days/times | By arrangement |

Class Schedule:

| | Section 10207 | Section 10208 |
|----------------|---------------------|--------------------|
| Lecture | MW 130-255p rm 2733 | MW 305-430p rm2721 |
| Lab – Rm. 2717 | Tues 130-440p | Thurs 130-440p |

****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
The text and lab manual are available as a single packet only- you have to get it from the bookstore because the lab manual is custom made for this class ONLY.

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 website: go to imperial.edu first. Once you're on the college site, you'll see some tabs near of the top of the web page. Click on the "Home" tab. Once you click on the home tab, a list of other tabs will then appear—now click on the "blackboard" tab and you can now log onto blackboard. To log onto blackboard, use the part of your official IVC student email address BEFORE the "@" symbol as the username and the password is your IVC email password.

Once you log in, you'll see the list of courses you're registered for and simply click on the course you're taking from me (eg, BIOL 100 CRN#^*%+) and you're in!

The website contains the syllabus as well as lecture slides, assignments, review guides, announcements and reminders and other teaching materials for the class . Please check the website often. Feel free to view and download the materials on the site

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.

Course objectives (cont'd)

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 course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. demonstrate an understanding of the steps of the scientific method. (ILO2)
2. communicate an understanding of the various patterns of inheritance of genetic traits. (ILO1, ILO2)
3. explain how the processes of natural selection influence evolution. (ILO1, ILO2)
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: I do NOT “hand out” grades. You earn your grade!!! Your grade is the result of what YOU do.

1. four examinations: three 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. There will be no make-up exams except for medical, legal or natural reasons.

If you are a DSPS student and need accommodations for taking exams, please inform me ASAP and remember to submit the forms at least 1 week before

EACH exam (including final) so I can make the proper accommodations in a timely manner.

2. Laboratory Portion: Based on attendance and participation in the laboratory sessions, laboratory exercises/reports(10-30pts each). More on format of lab report during a later lab session.

3. Reflections papers- 1 to 2 page reports regarding your thoughts on various issues in biology. More guidelines on this later in the semester.

4. There may also be several homework assignments, in-class exercises and/or quizzes worth 10-20points each.

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. The points are then divided by the total number of points possible to get a "percentage score." I do not "curve" exam scores or overall grades

A=at least 88.0% of total points

B=at least 78.0% “

C=at least 68.0% “

D=at least 60.0% “

F= below 60.0% “

I do not "round off"- if you earned 67.7% of the points, you get a 67.7%, NOT 68%

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

A student may take a make up test due to the following basic reasons:

1. Medical reasons – student's or immediate family member's illness.
2. Legal reasons – student is required to be in court.
3. Family tragedy/emergency – e.g. death in the family.

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!!!** This is the most important and essential requirement in order to succeed in this course. it is imperative that you do indeed attend class meetings AND the lab sessions **ON TIME**. Lectures and labs are an essential part of this course; therefore, attendance, note-taking and participation are required.

Please do NOT be **late OR absent**

2. Active participation in classroom discussions: All students are expected to participate in classroom discussions on the various topics presented in class.

Learning is not a one-way process -- it requires active involvement based on the recognition by the students of the inner need to know. The driving force of that inner need to know must of necessity come from the students themselves.

3. Classroom Behavior and Conduct: In order to facilitate learning and exchange of ideas, classroom atmosphere must radiate a deep sense of mutual respect and courtesy not only between the instructor and the students but also between the students themselves. Simply put: Treat others as you, yourself would like to be treated.

Note: **While in the classroom, cellular phones are to be turned off or set on vibratory or silent mode.**

if we are unable to cover topics in class due to disruptive behavior, you will still be tested on the topics!!!!

Disruptive behavior in class may result in classes and labs ending LATER than scheduled (i.e., “detention”)- since you OWE ME time if you are engaged in disruptive behavior!!!

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!**

LAST DAY to drop is NOV 9, 2013

4. Plagiarism and Cheating:

Please **Do NOT Cheat!** If you do you will get a score of 0 (zero) for that assignment. you will also be sent to the Chief Disciplinary Officer who will take appropriate action as stated in the college catalog. A 2nd occurrence may result in dismissal from class or expulsion from the college as stated in the catalog.

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).

IMPORTANT: **Electronic devices (laptops, phones, blackberries, PDA's, IPODS, iPADS etc) are not allowed during an examination.** If you use these devices or if they are even ON during an exam, **your exam score will be reduced by AT LEAST 50%!!!**