

Charlotte Murray

Class Syllabus --- Biol. 100 --- Class Code 10077 --- 4 Units --- Tuesday & Thursday 6:30 to 9:40

Fall 2012 --- Schedule subject to change

| Lec Date | Chapters | Lab Date | Subject & Page Numbers |
|----------|---|----------|--|
| Aug 21 | 1-- Sci. Study of Life, 2 – Chem. of Life | Aug 23 | Roots & Shoots pp 229-239 |
| Aug 28 | 2-- Continued & 3—Cells | Aug 30 | Leaves & Flower Parts pp 239-243 |
| Sept 4 | 8-- DNA Rep. and Cell Division, | Sept 6 | Mitosis and Lab Quiz pp 57-62 |
| Sept 11 | 4 – The Energy of Life 5-- Photosynthesis | Sept 13 | LAB EXAM |
| Sept 18 | 5 –Continued, 6 -- How cells Release Energy | Sept 20 | Algae pp 171-181 |
| Sept 25 | LECTURE EXAM CHAP. 1-8 | Sept 27 | Protozoa pp 185-193 |
| Oct 2 | 9 – Sexual Reproduction & Meiosis 10 – Patterns of Inheritance | Oct 4 | Cnidarians pp291, 293-297 Platyhelminthes pp303-310 |
| Oct 9 | 10—Cont, 12 – Forces of Evolutionary Change | Oct 11 | Annelida pp 325-333 |
| Oct 16 | 13 – Evidence of Evolution | Oct 18 | LAB EXAM |
| Oct 23 | 14—Speciation and Extinction | Oct 25 | Crayfish pp 335-336 & 341-344 |
| Oct 30 | LECTURE EXAM 10-14 | Nov 1 | Grasshoppers pp 346-350 |
| Nov 6 | 15 -- Evolution & Diversity of Microbial life | Nov 8 | Starfish pp 351-354 |
| Nov 13 | 16 – Evolution & Diversity of Plants | Nov 15 | Amphioxus pp 359-360 & Frog 393-396, 405-406 |
| Nov 20 | 17- Evolution and Diversity of Animals | Nov 22 | Thanksgiving Break |
| Nov 27 | 17 Continued | Nov 29 | LAB FINAL |
| Dec 4 | LECTURE FINAL: Chapters 15, 16, & 17 | Dec 6 | No Class |

HOME PHONE 760-357-2865 -- Call me when you need to but not before 7:30 a.m. or after 10:00 p.m.

TEXTS: Lecture: Biology, The Essentials by Marielle Hoefnagels

Lab: Laboratory Outlines in Biology VI, Peter Abramoff, & Robert G. Thomson

**** Bring colored pencils for the Lab. work

IF YOU WANT OUT OF THIS CLASS YOU MUST DROP YOURSELVES !!!! (Please, Please !!!)

Exams: Lecture exams are a combination of multiple choice, true false, short answer and essay questions.

Lecture Exams 3 @ 150-200 points each = 450-600 points (includes Final)

Lab exams 3 @ 80 points each = 240 points

Quizzes ± 10 @ 12-45 points each = 200 points → **Approx 1000 points possible**

Final grade is calculated as a percentage of the highest score in the class: {90% & above is an "A", 80%-89% a "B" etc. }

In general quizzes can NOT be made-up. There are no extra credit papers or work available, you need to learn what I want you to learn.

1. You may record the class
2. NO cell phone on during class --- TURN THEM OFF OR TO VIBRATE!!!!
3. Be on time
4. No talking in class while I am teaching or you may be sent from the class.
5. Any student with a documented disability, who may need educational accommodation should notify me and the Disabled Student Programs and Services office (Room 2117 – 760-355-63120) as soon as possible.
6. Important dates: Last day to Drop Nov. 10, 2012

Course Description: *Prerequisite: Math 091 or Math 090.* This course is a comprehensive one semester general biology course, designed to provide students with an overview and understanding of the biology and taxonomy of organisms in all five Kingdoms. The class will focus on genetics, evolution, and species diversity.

Course Objectives: Students will learn to use a microscope to identify various species of algae, protozoa, plants and animals. They will be able to describe various cellular processes like photosynthesis, aerobic cellular respiration, enzymatic reactions, mitosis, and meiosis. Students will acquire a general knowledge of genetics and how genetic information is passed on to offspring. Students will learn about the likely origin of life on Earth and how the original species underwent adaptation and evolution to give rise to life as we know it today. Students will be presented with a general review of all five Kingdoms with the greatest focus on eight animal phyla. The students will understand how over time phyla acquired characteristics that made them more advanced than those phyla without these characteristics.

STUDENT LEARNING OUTCOMES (SLOs)

INSTITUTIONAL STUDENT LEARNING OUTCOMES:

Students who complete a degree or certificate at Imperial Valley College will demonstrate competency in these five areas: communication skills, critical thinking skills, personal responsibility, information literacy, and global awareness.

COURSE STUDENT LEARNING OUTCOMES:

Students who complete Biology 100 with a grade of “C” or better will be able to respond to critical thinking applications of biological scenarios.