

Charlotte Murray

Class Syllabus --- Biol. 100 --- Class Code 20334 --- 4 Units --- Tuesday & Thursday 6:30 to 9:40

Spring 2013 --- Schedule subject to change

Lec Date	Chapters	Lab Date	Subject & Page Numbers
Jan 15	1-- Sci. Study of Life, 2 – Chem. of Life	Jan 17	Roots & Shoots pp 229-239
Jan 22	2-- Continued & 3—Cells	Jan 24	Leaves & Flower Parts pp 239-243
Jan 29	8-- DNA Rep. and Cell Division, 9 Sexual Reproduction and Mitosis pg 154-160	Jan 31	Mitosis and Lab Quiz pp 57-62
Feb 5	4 – The Energy of Life 5-- Photosynthesis	Feb 7	LAB EXAM
Feb 12	5 –Continued, 6 -- How cells Release Energy	Feb 14	Algae pp 171-181
Feb 19	LECTURE EXAM CHAP. 1-6, 8 and part of 9	Feb 21	Protozoa pp 185-193
Feb 26	9 – Sexual Reproduction & Meiosis pg 160-169 10 – Patterns of Inheritance	Feb 28	Cnidarians pp291, 293-297 Platyhelminthes pp303-310
March 5	10—Cont, 12 – Forces of Evolutionary Change	March 7	Annelida pp 325-333
March 12	13 – Evidence of Evolution	March 14	LAB EXAM
March 19	14—Speciation and Extinction	March 21	Crayfish pp 335-336 & 341-344
Mar 26	LECTURE EXAM part of 9 and 10, 12-14	March 28	Grasshoppers pp 346-350
APRIL 1-6 Spring Recess – No Classes			
April 9	15 -- Evolution & Diversity of Microbial life	April 11	Starfish pp 351-354
April 16	16 – Evolution & Diversity of Plants	April 18	Amphioxus pp 359-360 &
April 23	17- Evolution and Diversity of Animals	April 25	Frog 393-396, 405-406
April 30	17 Continued	May 2	LAB FINAL
May 7	LECTURE FINAL: Chapters 15, 16, & 17	May 9	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:

1. Demonstrate an understanding of the steps of the scientific method.
2. Communicate an understanding of the various patterns of inheritance of genetic traits.
3. Explain how the processes of natural selection influence evolution.
4. Perform lab activities properly, and correctly analyze lab data.