

Basic Course Information

Semester	Summer 2015	Instructor's Name	Charlotte Murray
Course Title & #	BIOL 100	Instructor's Email	charlotte.murray@imperial.edu
CRN #	30004	Webpage (optional)	
Room	2713	Office (PT Faculty:809)	
Class Dates	June 24 through July 30	Office Hours (n/a for PT Faculty)	n/a
Class Days	Monday through Thursday	Home Phone #	760-357-2865
Class Times	Lecture= 3:00-5:10 Lab = 5:30-7:40	Who students should contact if emergency or other absence	Contact me by phone or e-mail or Silvia Murray 760-355-6201 or Ofelia Duarte 760-355-6155
Units	4 units		

Course Description

This is 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 a laboratory component. (CSU, and UC credit limited. See a counselor)

Student Learning Outcomes

Upon course completion, with a grade of "C" or better, 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)

Course Objectives

Upon satisfactory completion of the course, students with a grade of "C" or better will be able to:

1. Identify the basic characteristics of all living things.
2. Name basic chemical aspects that pertain to life and the concept of homeostasis
3. Describe the subcellular components for the cell including their structure and function
4. Explain the light and dark reactions of photosynthesis
5. Explain cellular respiration and its relations to the entire organism.
6. Demonstrate knowledge of the structure and function of DNA and RNA.
7. Explain protein synthesis and site the central dogma of cell biology.
8. Compare and contrast the fundamentals of asexual and sexual reproduction.
9. Define ecology and the overall impact of ecology to conditions in the environment.
10. Solve problems in general genetics and in human genetics and relate advances in genetics to social responsibility of geneticists.
11. Identify and relate the functions of the major systems of the human body; the interrelationship among body systems and nature of disease.
12. Classify organisms in the kingdoms of plants and animals, discuss their evolutions and their relationships.

Textbooks & Other Resources or Links

- Lec. Text: Biology Concepts and investigations (3rd edition) by Marielle Hoefnagels – ISBN 978-0-07-3525549-9
- Lab. Text: Laboratory Outlines in Biology VI: Peter Abramoff, & Robert G. Thompson
- Colored Pencils are recommended – a box of 12-24 colors is best
- Safety glasses – will be needed beginning October 9th. You can purchase them at the book store for about \$5.00 and at Harbor Freight for about \$1.00.

Course Requirements and Instructional Methods

Students will learn to use a microscope to identify various species of algae, protozoa, plants and animals and their parts. They will also learn much of the taxonomy of these species. 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.

Course Grading Based on Course Objectives

Class grading will be based on points accumulated in the following ways.

- 3 Lecture Exams covering chapters assigned 150-200 points each
- 10 Lecture Quizzes 12 to 45 points each Total points 150 – 200 points
- 3 Lab Exams 80 points each Total points 240
- Approximately 1000 points possible

Exams may include true/false, multiple choice, essay and short answer questions. Missed quizzes and exams may be made-up. However, they must be made-up at the next class meeting unless otherwise discussed. Asking to make-up missed quizzes or exams is your responsibility. Lab exams cannot be made-up as it takes hours to set them up.

Grading: A = 100 – 90% B = 89 – 80% C = 79 – 70% D = 69 – 60% F = ≤ 59%

There is no extra credit offered. I need you to learn what I ask you to learn.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- Electronic Devices: Cell phones and electronic devices (unless being used to take notes etc.) must be turned off and put away during class unless otherwise directed by the instructor.
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- Plagiarism is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.
- Anyone caught cheating or helping others to cheat will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment ;(c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, (e) use of a commercial term paper service.

Disabled Student Programs and Services (DSPS)

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. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Anticipated Class Schedule / Calendar

*****Schedule subject to Change*****

Wk	Day	Date	Lecture 3:00-5:10	Laboratory 5:30-7:40
1	Wed.	6-24	Chapter 1 & Chapter 2	Roots & Stems pp229-239
	Thurs	6-25	Chapter 2 Cont. & Chapter 3	Open Book, Open Note Quiz on Roots & Stems
	Fri	6-26	Chap. 3, Chap 4 pp 75-81, & Chap. 8	Leaves, Flower parts, & Seeds pp 239-243
2	Mon.	6-29	Chapter 8,	Open Book, Open note Quiz on leaves & Flowers --- Mitosis Lab. (no other exams or quizzes are open book open note)
	Tue.	6-30	Chapter 9 pp 154-160, Rest of Chapter 4	Algae pp 171-181 & Mitosis Quiz
	Wed.	7-1	Chap 5, Chapter 6	Algae Quiz
	Thurs	7-2	Chap 6 & Test Review	Protozoa pp 185-193
3	Mon.	7-6	Lecture Exam 1-6, 8 and part of 9	Protozoa Quiz
	Tue.	7-7	Chap 10 & Chap 9 pp 160-169	Cnidarians pp 291, 293-297
	Wed.	7-8	Chap. 10 Cont. Chapter 12	Platyhelminthes pp303-310
	Thurs	7-9	Chap 13 Chap. 14	Quiz Cnidarians & Platyhelminthese
4	Mon.	7-13	Chap 14 & Test review	Annelida, -- Earthworm Dissection – pp 325-333
	Tue.	7-14	Lecture Exam – Part of 9, & 10, 12-14	Annelida Quiz
	Wed.	7-15	Chap. 7 pp 125-133 Chap 15	Crayfish dissection pp 335-336, 341-344
	Thurs	7-16	Chap 15	Crayfish Quiz
5	Mon.	7-20	Chap 15 & Chap 16	Grasshopper dissection – pp 346-350
	Tue.	7-21	Chap 16 & Chap 17	Grasshopper Quiz
	Wed.	7-22	Chap 17	Starfish dissection – 351-354
	Thurs	7-23	Chap 17	Starfish Quiz
6	Mon.	7-27	Chapter	Amphioxus slides 359-360
	Tue.	7-28	Chap 17 cont	Frog dissection 393-396, & 405-406
	Wed.	7-29	Chap 17 cont and Test Review	Lab Final Amphioxus and Frog
	Thurs	7-30	Final: Chapters: 7, 15, 16 & 17	

THINGS YOU MUST DO:

1. Purchase a pair of safety glasses. They can be purchased at the book store for about \$5.00 or Harbor Freight for about \$1.00. We will need them when we start to do dissection around Oct 9th.
2. Go to web site: <http://forms.imperial.edu/machform/view.php?id=24> and complete the form for the lab safety information as required by the department. * Failure to complete the form may affect your grade.

1. You may record the class
2. **Important date:** Last day to Drop; May 16, 2015
3. *Prerequisite: Math 091 or Math 090.*