

**Syllabus for Biology 3 : Introduction to Biology Sec 0138 and 0139**  
**Los Angeles Mission College** Spring 2013: Mon Feb 4 – June 3, 2013

Instructor: Dr. Sheila Fennoy                      My Campus Phone Ext: 4269  
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Office Hours: Mon and Wed 11:30-12:10pm in Faculty Office

**All students attend two lectures each week 12:15-1:40pm and one 3hr Lab (either Mon or Wed)!!!**  
**Lecture: Mon and Wed 12:15- 1:40 am. Rm 004.**

**Laboratory Meets in room 110: M or W 1:50-5:00 pm**

Lab Manual is online: <http://www.lamission.edu/lifesciences/Biology3Laboratories.aspx> ;

Requirements: Each student should get the following 3 things.

1. Lecture Textbook: "Biology: Concepts and Connections" by Campbell et al
2. Laboratory Workbook and worksheets: Laboratory Investigations by J. Dickey
3. Scantron Forms (882-ES) and pencils (#2) for exams and laboratory handouts.

*You will be dropped from class if not obtained by first meeting of second week.*

**FINAL EXAMINATION Mon, June 3, 2013, 12:30-2:30 pm. There are no make up. Do not schedule holidays or vacations on final exam dates. This date is tentative and is waiting final confirmation from the college.**

Lecture Notes can be downloaded from my LA Mission website: <http://www.lamission.edu/~fennoy>  
Lab worksheets and procedures can be and must be purchased from the bookstore

**Class Objectives:** Biology 3 is a survey course that combines lectures, laboratory topics. The objective is to give students an introduction to the scientific method, topics fundamental to all living cells and diversity in living systems. Topics will include chemistry of life, cell structure and function, metabolism genetics and organization of ecosystems, of humans and plants. *English 28 or ESL8 is a prerequisite for taking this class.*

**Articulation:** Biology 3 articulates with CSUN 101 & 101L; CSULA 155 or 156 or 180. You are also encouraged to view articulation agreements at [assist.org](http://assist.org).

Biology 3 is a survey course that combines lectures, laboratory topics. The objective is to give students an introduction to the scientific method, topics fundamental to all living cells and diversity in living systems. Included in the content are the fundamental physical and chemical principles underlying the life sciences; the basics of cell structure and function; the underlying principles of heredity, reproduction, and development; and the intimate interplay between organisms and their environment Topics will be reinforced using the weekly lab assignments.

**STUDENT LEARNING OUTCOME**

Biology 3 students will work together as a laboratory team to answer questions, in writing, on laboratory techniques learned in the course and will design a simple experiment using those methods.

**COURSE OBJECTIVES**

1. To develop learning skills necessary for academic and professional success.
2. To grow as a citizen to support the academic growth of our children and our community.
3. To gain the knowledge to teach our children how to maintain healthy minds, bodies and ecosystems.
4. To learn how to be resourceful
5. To learn to work as a team in problem solving and the art of exchanging information for greater understanding
6. To learn to make informed lifestyle decisions that will allow for a sustainable future and to become responsible global citizens.
7. To become a critically thinking member of our democratic society, being able to read and discuss issues raised by modern advances in the life sciences

Points are deducted for the following

- 2 pts for each use of cell phone in class
- 10 pts for non-participation in lab (sitting and not engaged or not contributing)
- 5 pts for late attendance or for leaving or turning in labs report late

EXPECTATIONS:

Academic. You are expected to read and study the assigned text chapters before coming to class. Proficiency on exams and quizzes. You must demonstrate a proficiency in the reading and writing subject matter covered in both labs, lectures by passing weekly quizzes. There will be a number of exams covering the assigned reading at the start of class. Exams will cover your comprehension of concepts from lecture notes, lab, discussions, and your memory of terminology.

Attendance and participation is mandatory. You should drop the class if you know you will miss 3 classes. Continual tardiness will be looked upon as an unexcused absence. Students who attend class, take detailed notes and study those notes and the text receive passing grades. Students absent 3 or more times from class will be dropped from the roster. Points are lost for leaving lecture early.

Laboratory: The laboratory will reinforce fundamental concepts related to lecture topics and the scientific method. During every lab emphasis is placed on measuring, graphing, recording and interpreting experimental results. There will be a lab quiz at the start of every lab. Each quiz is worth 10 points. Quizzes cover information from the current and previous lab as well as information from lecture. A lab practicum worth 50 points is given on the last day of on campus lab. You will loose 2 points each time you are reminded that there is No Eating in lab. Lab reports are worth 10 points each. No credit can be given on assignments or reports from a student who did not attend the class.

Examinations: Several exams worth 100 points are taken during the semester and a *comprehensive* final, at the end. There are no make-up exams. The lowest exam score will be dropped when evaluating the final score. Students caught cheating will automatically receive a zero "0" on that exam. Cheating is grounds for dismissal from *the college*.

Written Assignments:

Your Biology Grade is based on both Lec & Lab combined:

40% LAB		60 % EXAMS AN LECTURE PRESENTATION	
Laboratory practicum	100	Your Biology Grade is based on:	
Laboratory reports	150	3 lecture exams (100 points each)	300 pts
Quizzes	150	Final examination	200
		Film Review (One page report)	25
		Terrestrial or Aquatic Ecosystem	25
		Human Evolution Article Review	50
*Extra Credit can be used to replace up to 20pts.			

Grade Scale: Letter grades are based on the following

A:90-100%                      B: 80-89%                      C:70-79%                      D:60-69%                      F:59% or less

It is your responsibility to drop the class by the appropriate *deadlines*.

**Holidays (College Closed)**

**Friday, February 15, 2013:** Last Day to process add request

**Monday, February 18, 2013:** President's Day (College Closed) Holiday

Last day to drop with a refund in person or online

**YOU MUST DROP THE CLASS YOURSELF on or before May 5, 2011.**

**March 08, 2013:** Last day to petition for Credit/No-Credit and do a section transfer

**March 29, 2013 - April 05, 2013:** Spring Break (College Closed)

**Monday, April 01, 2013:** Cesar Chavez Day Holiday (College Closed)

**May 27, 2013**

**Memorial Day Holiday (College Closed)**

**June 04, 2013: GRADUATION DAY!**

**Remember the limit is now three times to take a class in any one District and includes both non-passing grades and withdrawals and it is your responsibility to drop the class on or before May 5 or the student is subject to receiving a failing grade in the class.**

## **Code of Honor and Integrity**

Los Angeles Mission College  
Department of Life Sciences

Students at Los Angeles Mission College, because they are members of an academic community dedicated to the achievement of excellence and the pursuit of honor, are expected to meet high standards of personal, ethical, and moral conduct. These standards require personal integrity and a commitment to honesty without compromise. Without the ability to trust in these principles, an academic community and a civil society cannot exist. Los Angeles Mission College students and faculty are as committed to the development of students with honesty and integrity as they are to the academic and professional success of its students.

The Code of Honor and Integrity is an undertaking of the students, first and foremost, both individually and collectively, that they will:

1. not give or receive dishonorable aid during exams, quizzes or assignments
2. do their share and take an active part in seeing to it that fellow students, as well as themselves, uphold the spirit and letter of the Code of Honor and Integrity.

Some examples of conduct that are regarded as being in violation of the Honor Code include:

- \* Copying from another's examination or quiz, or allowing another to copy from one's own papers
- \* Using any unpermitted source of information, human or other, during an exam, quiz or assignment that influences the grade; this includes the use of technological devices
- \* Any student-to-student collaboration that is unpermitted \* Plagiarism (plagiarism is defined as the use, without giving reasonable and appropriate credit to, or acknowledging the author or source, of another person's original work)
- \* Representing as one's own work as the work of another
- \* Giving or receiving aid on an academic assignment under circumstances in which a reasonable person should have known that such aid is not permitted

As a part of the effort to promote an environment of honesty and integrity during quizzes and examinations, the following guidelines will apply for any courses in the Department of Life Sciences:

1. Students will leave all books and all other non-essential items (e.g. paper, electronic devices) on the floor so that they are not useable nor block the sight line between professor and student. No electronic devices will be in reach.
2. Students will not communicate in any way that will dishonorably assist themselves or another student.
3. Students will leave the room during an exam only if permitted by the professor's policy. If permitted, only one student may leave the room at any time and be gone for only the average length of time needed for the stated purpose. Students will leave all purses, bags, books, phones, jackets, etc., in the classroom during the absence.
4. Students will promote the spirit and letter of the Code of Honesty and Integrity by dissuading fellow students from dishonest activity and, when such casual persuasion does not work, informing the professor of the possible dishonest activity, either anonymously, or otherwise.
5. Students will make every effort to avoid even the appearance of dishonesty or lack of integrity

Violation of this policy will not be tolerated and violators will be subject to severe penalties. The success of the Code of Honor and Integrity is based upon the collective desire of students, faculty and the community to live in an environment that embraces respect for that which is right – both in the college and in society as a whole.

**TENTATIVE UNIT LECTURE TOPICS:**  
**Some changes may be made during the semester.**

**Unit 1** Lect 1. Introduction To Biology And The Scientific Method: Scientific Inquiry Metric System, Graphing  
Lect 2: Chemistry Of Life. Atomic Structure, Ions, Bonds And Properties Of Water  
Lect 3: Molecules Of Cells. Buffers and pH, Mono And Polysaccharides and Proteins  
Lect 4: Molecules Of Cells. Lipids And Nucleic Acids  
Lect 5: Cells. Prokaryotes And Eukaryotes Cell Structure. The 5 Kingdoms of Life.  
Lect 6: Intro To The Plasma Membrane

**Exam for Unit 1**

**Unit 2** Lect 7: Cellular Work: Enzymes, Membrane Transport, Osmosis, Passive And Active  
Lect 8: The Digestive & Nutrition  
Lect 9: Transport in Plants and Animals.  
Lect 10: Cell Respiration and making Cell Energy  
Lect 11: Photosynthesis  
Lec 12: The Role of Mitosis & Meiosis in Sexual Repro of Plants and Animal

**Exam for Unit 2**

**Unit 3** Lect 13: Genetics and Principles of Inheritance  
Lect 14: DNA and RNA Replication.  
Lect 15: Transcription And Translation  
Lect 16: Regulation Of Gene Expression. Promoter, Enhancer, Gene Sequences  
Lect 17: Biotechnology  
Lect 18: Principles Evolution: Evidence for Evolution How Natural Selection Works.  
Overview of Evolution of Plant and Animal Migration to Land

**Lecture Exam #3**

**Unit 4:** Structure And Function In The Human Body :  
**Lect 19:** Cells, Tissues And Organs and the Integumentary System  
**Lect 20:** The Nervous System  
Lect 21: The Endocrine & Reproductive System In Animals And Plants  
**Lect 22:** The Cardiovascular and Respiratory Systems.  
Lect 23: The Immune System  
Lec 24: The Excretory System; Salt and Water Balance  
Lec 25: The Skeletal And Muscular System

**FINAL EXAMINATION Mon, June 3, 2013 12:30- 2: 30 pm.**

## **#### BIOLOGY 3 LAB SCHEDULE SPRING 2013 ####**

*MON*

**WEEK 1** Feb 4

Lab 1 - Sci Meth &  
Metric(1&2)

**WEEK 2** Feb 11

Lab 2 - Molecules, pH

**WEEK 3** Feb 18

**HOLIDAY**

**WEEK 4** Feb 25

Lab 3 - Microscope

**WEEK 5** Mar 4

Lab 4 - Macromolecules

**WEEK 6** Mar 11

Lab 5 - Enzymes

**WEEK 7** Mar 18

Lab 6 - Respiration

**WEEK 8** Mar 25

Lab 7 - Photosynthesis

**WEEK 9** Apr 1

**##### SPRING**

**WEEK 10** Apr 8

Lab 8 - Mitosis & Meiosis

**WEEK 11** Apr 15

Lab 9 - Genetics

**WEEK 12** Apr 22

Lab 10-DNA & Gene Exp

**WEEK 13** Apr 29

Lab 11-Natural Selection

**WEEK 14** May 6

Lab 12 - Cardio Health

**WEEK 15** May 13

**Lab Practical**

**WEEK 16** May 20

Lab 13 - Plant Kingdom

**WEEK 17** May 27

**HOLIDAY**

**WEEK 18**

**Final Exam**

*WED*

6-Feb

Lab 1A - Sci Meth (1 only)

13-Feb

Lab 1Part2 - Metric System

20-Feb

Lab 2 - Molecules, pH

27-Feb

Lab 3 - Microscope

6-Mar

Lab 4 - Macromolecules

13-Mar

Lab 5 - Enzymes

20-Mar

Lab 6 - Respiration

27-Mar

Lab 7 - Photosynthesis

7-Apr

**#####BREAK**

10-Apr

Lab 8 - Mitosis & Meiosis

17-Apr

Lab 9 - Genetics

24-Apr

Lab 10-DNA & Gene Exp

1-May

Lab 11-Natural Selection

8-May

Lab 12 - Cardio Health

15-May

**Lab Practical**

22-May

Lab 13 - Plant Kingdom

29-May

**FINAL**

**June 3<sup>rd</sup> 12:30-**

**2:30**