

Instructor: Osvaldo Larios Perez (Ozzy)

Office Phone: 818-364-4156

E-mail: LariosO@lamission.edu

Canvas: <http://lamission.edu/canvas>

Lecture, CMS 005: (Section #14252)

Wednesdays 6:50 PM - 8:50PM

Saturdays 11:10 AM - 12:15PM

Lab, CMS 110:

Saturdays 7:50 AM - 11:00AM (#14298)

Saturdays 12:20 PM - 3:30 PM (#19203)

Office Hours:

Wednesdays: 8:55PM - 9:35PM (CMS 005)

&

Office Hours:

Saturdays: 7:05AM - 7:45AM (CMS110)

Saturdays: 3:35PM - 3:55PM (CMS110)

Prerequisite: English 008 or English 028

Advisory: Math 115 or Math 123B

Catalog Course Description:

This course for non-majors examines the fundamental principles of biology with laboratories emphasizing hands-on investigations. Topics include an introduction to evolutionary theory, basic biological chemistry, cell function and reproduction, cellular respiration and photosynthesis, classical and contemporary genetics, gene expression and an introduction to animal structure and function. Meets UC/CSU GE requirement of natural science with a lab.

COURSE MATERIALS:

1.) Simon et al., Campbell Essential Biology, Pearson, 6th ed 2016.

ISBN: 978-0-13-477901-0

- Bookstore: <https://eagleslanding.lamission.edu/>

2.) Biology 3 Laboratory Manual 6th Edition

ISBN: 978-0-8400-7900-8

- Free download at: <http://www.lamission.edu/lifesciences/Biology3Laboratories.aspx>

3.) Blank Scantrons: 3x 882E form & 5x 815E form

4.) Composition Notebook(s): 1-2

STUDENT LEARNING OUTCOMES:

1. BIO3 students will analyze a scientific experiment and determine the major components.
2. BIO3 students will graph, interpret, and analyze data pertaining to a biological process.
3. BIO3 students will analyze a genetic problem to determine the probabilities of genotypic and phenotypic outcomes.
4. Given a DNA sequence, BIO3 students will apply the principles of gene expression to determine the protein product.

Course Objectives:

1. To learn the language and fundamental concepts of modern and classical biological sciences in order to be successful in future academic and/or professional endeavors.
2. To grow as a student of science, by integrating lectures, discussions, laboratories, home-study, and small-group study into a holistic approach to learning.
3. To work as a member of a laboratory team, taking responsibility for one's own success, but learning to adapt, share and learn with others during laboratory meetings.
4. 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, in order to make informed decisions for oneself, family, friends, and community.

GRADE EVALUATION:

Any questions regarding grades shall be answered in person privately. I must be given a 24 hour advanced notice via email to ensure my grade book reflects your current performance. You must also bring records of your current points (see page #7 of this syllabus).

I. POINT DISTRIBUTION:

	Participation	20 Points
Lecture:	2 Exams	250 Points
	Final Exam	175 Points
	Quizzes	190 Points
	Homework	30 Points
	Composition Notebook	20 Points
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Lab:	Lab Exercises	140 Points
	News Article Review	75 Points
	<u>Final Practical Exam:</u>	<u>100 Points</u>
	Total Points:	= 1000 Points

II. GRADING SCALE:

The following scale will be used to determine your letter grade in this course:

A = 90 - 100% B = 80 - 89% C = 70 - 79% D = 60 - 69% F = Below 60%

PARTICIPATION:

20 Points

Any student missing the first day of instruction will be dropped from the course. Also, more than 2 absences in the semester may cause a student to be dropped from the course. You must bring a copy of this syllabus to class each day.

You may have pop-quizzes periodically. Pop-quizzes may be administered at any time of a lecture. Be sure to do at least one of the following to best prepare:

- 1.) Read the chapter/material relevant
- 2.) look/study over my powerpoint slides,
- 3.) complete the HW Youtube video(s) (if assigned)
- 4.) answer as many of the study guides.

Failure to keep attention during lectures due to an electrical device distraction will result in direct questioning from the day's topic and correct answers will be used for participation points. If I see you on your electrical device during lecture, I will ask that you step outside the classroom and return when you are ready to listen to my lecture. If such disruptive behavior continues, I will ask you to leave the classroom for the remainder of my lecture.

No part of my lectures may be recorded using any electronic device without my permission.
No pictures are permitted of my in-class/lab quizzes and exams; study guides (check with me).

No electronic device may be used during an Exam/Quiz/Final. You must turned off your electronic devices prior to the start of each Exam/Quiz/Final and be placed out of sight. Failure to put away your electronic device may result in point deductions or a zero for that particular Exam/Quiz/Final, etc... Further instructions will be provided on the day of the Quiz/Exam/Final (orally or written on your hardcopy)

Students will be responsible for the material to be covered for course examinations according to the tentative agenda. You may earn extra credit points by taking or submitting any of the following. Any inquiries regarding additional extra credit assignments not listed below, will result in less extra credit assignments.

- 1.) No wrinkle scantrons on exams
- 2.) All of the post-quizzes and pre-quizzes taken
- 3.) All HW assignments submitted
- 4.) Have an organized and completed composition notebook
- 5.) Participate in all lectures & Labs
- 6.) Submitting the News Article 3 weeks before the due date (Fall/Spring only)

LECTURE:

Exams/Final:

425 Points

2 Exams: worth 100 points (1st), 150 points (2nd)

Lecture final: worth 175 points.

The **exams will be cumulative** according to the chapters listed/covered. The **Final exam is cumulative**.

A Scantron (form #882E), pencil(s)/led pencil(s), and an eraser will be needed for each exam. Once you leave the classroom, you will not be permitted to return nor continue your exam. If you are not present the day I return scantrons, I will not bring them for our next course meetings unless you email me to remind me. **There is no make-up for the Final.** All electronic devices (including but not limited to smartwatch, tablet, laptop, cell phone, etc...) must be turned off and placed out of sight. I may assigned a seating chart or ask you to move to a different seat; when I do, please do so quietly. Failure to follow any of the instructed rules may result in a zero.

Quizzes:

190 Points

5 Post-Quizzes (form #815); each worth 30 points. Given at our next meeting after the chapter(s) have been completed.

Chs. 3 & 4 (Q1); Chs. 6 & 7 (Q2); Chs. 8 & 9 (Q3); Ch. 10 (Q4); Chs. 12 & 13 (Q5)

4 Pre-Quizzes; each worth 10 points. Issued at the start, middle or near the end of the lecture.

Chs. 4, 6, 8, and 10 *Pre-quizzes may be multiple choice/short answers/essay*

Be sure to understand the homework to perform well on the pre-quiz. No makeups on pre-quizzes for whatever reason.

Given electronically/viewed on the projector. Once you leave the classroom, it will be to my discretion if you may return and continue your quiz. You will have the opportunity to take **one open redo-composition notebook** post-quiz. If you are not present the day I return scantrons, I may not bring your scantron for our next course meetings unless you email me to remind me. All electronic devices (including but not limited to smartwatch, tablet, laptop, cell phone, etc...) must be turned off and placed out of sight. I may ask you to move to a different seat, and when I do please do so quietly. Failure to follow any of the instructed rules will result in a zero. If you arrive 10-minutes late or I have started the quiz, please wait outside the classroom until we are done with the quiz.

Homework:

30 Points

Assigned youtube videos will be assigned and are to be watched prior to the upcoming lecture(s). You must submit a summary of the assigned video to **Canvas as a PDF by the due date**. Submission by email and/or as other format other than PDF may not be accepted. Lack of internet/wifi, access to a computer, not able to convert your HW to a PDF, or any other personal technical difficulty will not be a reasonable excuse to open or extend the due date. Only If Canvas announces a technical difficulty then exceptions will be made for due date extensions. Canvas may run on **Eastern Time zone**, so if the due time is set for 11:59PM, in Pacific Time (our time) will be 8:59PM. Your submission must include a **minimum of 300 words**. It is your responsibility to keep up with the course and know which chapters we will be covering weekly. **6 points per homework assignment**. Include **your name, course name, semester and year, and the date** you wrote your assignment on the top right corner of the page. Homework is meant to help you earn a high score on Pre-quizzes, which will also be reflective of your scores on your post-quizzes and/or Midterms/Final.

In case there is more than one video for a Chapter, it is your choice whether you want to write 300 words just for one video or 300 words summarizing all or most of the videos. Watching all videos will increase your chances of earning high marks on your exams and overall your final course grade.

Topics include:

Ch. 4 =	Cellular Organelles	= 6 pts
Ch. 6 =	Cellular Respiration	= 6 pts
Ch. 8 =	Mitosis/Meiosis/Cell Cycle	= 6 pts
Ch. 9 =	Genetics/Patterns of Inheritance	= 6 pts
Ch. 10 =	DNA/DNA Replication/Gene Expression	= 6 pts

Re-do Notebook:

20 Points

Having organized lecture notes is key to be successful in the course. After each lecture, you must re-do your notes using a 2nd notebook. I may periodically check your re-do notebook throughout the semester. I can check your re-do notebook as early as the following class meeting. You may use highlighters, color pencils/pens, etc... to ensure your re-do notebook is legible and easy to follow. Do not cut and glue/tape slides from the Powerpoint lectures. You may be needing 2 re-do notebooks, depending on your style of neatness. **You must bring your in-class and re-do notebooks to class each day we meet.**

MAKE-UP POLICY:

If you know you will be missing an exam, you must contact me by e-mail at least three days in advance. If your absent time is for a medical/legal reason (not to exceed more than 6.0 instructional/class hours), please bring medical documentation on your next attendance. This medical documentation must be a dated and signed doctor's note. Once I determine your absence being legitimate, I will offer you a make-up exam on an acceptable time frame. **There is no make-up policy for the Final lecture, nor the lab Practical exams.**

You may miss only one post-quiz. The one missed post-quiz will be replaced with your average post-quiz score at the end of the semester. If missing post-quizzes are due to a medical/legal excuse, proper arrangements must be made to make up the points. If your absent time is for a medical/legal reason (not to exceed more than 6.0 instructional/class hours), please bring medical documentation on your next attendance. **There is no make-up for any of the pre-quizzes.**

Spring/Fall semester: Submitting the News Article assignment late will result in an automatic 25% point deduction.

GENERAL COMMENTS:

I am here to help you learn and it is a pleasure for me to give extra help when requested. This is a fast-paced course that covers a lot of material in very few class meetings. It is incumbent upon every student to do the readings on time and participate actively in the lab.

Work together! It is phenomenal what two or more people can learn at a lab table working together compared to one lonely, lost soul trying to isolate a cheek cell on a slide. Come to class prepared to help one another.

Ask questions! There is no such thing as a dumb question. The chances are that if you have a question, I guarantee others in the class have the same question, just waiting for someone to ask. We have all been there before. So speak up!

Turn off electronic devices. Please be courteous to me and other students in the class.

COLLEGE RESOURCES:

Science Success Center (SSC):

Free tutoring is available for all science students in CMS 101 of the Center for Math and Sciences (CMS). For more information visit: <https://www.lamission.edu/learningcenter/ssc.aspx>

STEM Office:

For information on free tutoring, resources and academic counseling for STEM (Science, Technology, Engineering, and Technology) students visit the STEM Center in CMS 014. <http://www.lamission.edu/stem>

Admissions and Records:

Students can register for classes, request transcripts, file petitions for graduation, and drop classes at this office. For more information call 818-833-3322 or visit: <http://www.lamission.edu/admissions/>

Assessment Center:

Offers student assessments in English, English-as-a-Second-Language (ESL) and Mathematics. Please contact the Assessment Center at (818) 364-7613 for more information or visit <http://www.lamission.edu/assessment/>

Bookstore:

For hours of operation, book availability, buybacks, and other information call 818-364-7767 or 7768 or visit <http://eagleslanding.lamission.edu/default.asp>

Counseling Department:

For appointments and information call 818-364-7655 or visit <http://www.lamission.edu/counseling/>

Disabled Students Programs and Services (DSP&S):

For appointments, eligibility and information call 818-364-7732 or visit <http://www.lamission.edu/dsps/>

Extended Opportunity Programs and Services (EOPS):

For appointments, eligibility and information call 818-364-7645 or visit <http://www.lamission.edu/eops/>

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.

DSP&S Accommodations

LAMC students with verified disabilities who are requesting academic accommodations should use the following procedure: <http://www.lamission.edu/DSPS/Faculty-Classroom-Syllabus-Statement.aspx>

Step 1: Obtain documentation of your disability from a licensed professional. You may contact DSP&S to request a *Disability Verification Form*.

Step 2: Make an appointment to meet with a DSP&S counselor or Specialist to review your documentation and discuss reasonable accommodations. To schedule a meeting, please call DSP&S at (818) 364-7732.

Step 3: Bring your disability documentation to your DSP&S appointment. The DSP&S office is located in room 1018 of the Instructional building.

Step 4: *Each semester*, obtain an Accommodation letter from the DSP&S to present to your instructor.

Please complete this process in a timely manner to allow adequate time for accommodations in the classroom.

You can determine your current grade in the class at any time by adding up all the points from exams, quizzes, assignments, etc. Add up the points you have earned at present, divide your calculated points by the total points you have obtained at present then multiply by 100 to get your % score. Finally look up your grade on the grading scale. You must present this “Points distribution” sheet to me when discussing your grade in the course.

Points distribution

***Lab Practical = 10 points for Lab Exercises**

1,000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Part. 20															___/20
Lab 140	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{10}$ /	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{/10}$	$\frac{\quad}{10}$ /	___/140
Post-Quiz 150				$\frac{\quad}{/30}$			$\frac{\quad}{/30}$		$\frac{\quad}{/30}$	$\frac{\quad}{30}$ /			$\frac{\quad}{/30}$		___/150
Pre-Quiz 40				$\frac{\quad}{/10}$		$\frac{\quad}{/10}$		$\frac{\quad}{/10}$		$\frac{\quad}{10}$ /					___/40
HW 30				$\frac{\quad}{/6}$		$\frac{\quad}{/6}$		$\frac{\quad}{/6}$	$\frac{\quad}{/6}$	$\frac{\quad}{6}$ /					___/30
News 75															___/75
Exams 250							$\frac{\quad}{/100}$			$\frac{\quad}{150}$ /					___/250
Lab Pract 100															___/100
Final 175															___/175
Notebook 20															___/20

Important Dates: Fall 2019	
Refund Deadline:	Sept. 8th
Drop Deadline w/out a W:	Sept. 8th
Drop Deadline with a W:	Nov. 17th

Bio 3 Fall 2019 – Laboratory Schedule

*Class lectures may proceed lab experiments

Week	Date	Topic	Lab Exercise
1	Aug. 31st	Scientific Method	1
2	Sept. 7th	Metric System	2
3	Sept. 14th	Molecules & pH	3
4	Sept. 21st	Macromolecules	4
5	Sept. 28th	Microscope	5
6	Oct. 5th	Enzymes	6
7	Oct. 12th	Cellular Respiration	7
8	Oct. 19th	Photosynthesis	8
9	Oct. 26th	Mitosis & Meiosis	9
10	Nov. 2nd	Genetics Inheritance	10
11	Nov. 9th	DNA & Gene Expression	11
12	Nov. 16th	Natural Selection	12
13	Nov. 23rd	Plant Kingdom	14
14	Nov. 30th	Non-Instructional Day	-
15	Dec. 7th	Lab Exam	1-14
16	Dec. 14th	No Lab	-

Bio 3 Fall 2019 – Tentative Lecture Schedule

*Homework: Youtube video

Week	Week of	Topic	Chapters
1	Aug. 28th	Introduction: Biology Today Essential Chemistry for Biology	1 2
2	Sept. 4th	The Molecules of Life A Tour of the Cell	3 4*
3	Sept. 11th	The Working Cell Cellular Respiration	5 6*
4	Sept. 18th	Cellular Respiration Photosynthesis	6* 7
5	Sept. 25th	Photosynthesis	7
6	Oct. 2nd	Exam 1 Cellular Reproduction	3-7 8*
7	Oct. 9th	Cellular Reproduction Patterns of Inheritance	8* 9*
8	Oct. 16th	Patterns of Inheritance Structure and Function of DNA	9* 10*
9	Oct. 23rd	Structure and Function of DNA DNA Technology	10* 12
10	Oct. 30th	DNA Technology	12
11	Nov. 6th	Exam 2 Movie	8-12 Video
12	Nov. 13th	How Populations Evolve How Biological Diversity Evolves	13 14
13	Nov. 20th	How Biological Diversity Evolves The Evolution of Microbial Life	14 15
14	Nov. 27th	The Evolution of Plants and Fungi The Evolution of Animals	16 (pg 316-332) 17
14	Nov. 28th & 29th Nov. 30th & Dec.	Thanksgiving Non-Instructional Day	-
15	Dec. 4th	The Body's defenses Nervous, Sensory, and Motor System	24 27
16	Dec. 11th	Final Exam: 8:00PM - 10PM	Cumulative

Syllabus Agreement

I, _____, (**print name**) have read the syllabus and class schedule and understand the classroom policies, expectations, and rules as stated in the syllabus and schedule. By signing this form I agree to comply with the policies listed and accept the schedule for this course.

- You must complete 90% of the course assignments (see point distribution) in order **to be granted the extra credit points** possibly given throughout the course.
 - This includes class discussions (asking questions; answering questions; engaging in the course). Leaving early and/or arriving late repeatedly will be taken into account.
- Failure to submit a completed Syllabus Agreement will result in **zero extra credit points**.
- Failure to **attend ANY of the last 6 lecture hours** will result in **zero extra credit points**.
- If your scantron for the Final exam is wrinkled/folded you will earn **zero extra credit points**.

The following documents have been reviewed (please initial each one)

_____ Syllabus

_____ Course Outline/Schedule

_____ **Signature**

_____ **Signature of Parent/Guardian
(If under 18 years old)**

_____ **Date**

_____ **CRN/Session/Ticket Number** (see top of first page)

_____ **College**