

Instructor: Osvaldo Larios (Ozzy)**Office Phone:** 818-364-4156**Lecture, CMS 005:** (Section #15196)

Wednesdays 6:50 PM - 8:50PM

Saturdays 11:10 AM - 12:10PM

Office Hours:Wednesdays: 8:55PM - 9:35PM (*CMS 005*)Saturdays: 7:05AM - 7:45AM (*CMS110*)Saturdays: 3:35PM - 3:55PM (*CMS110*)**Email:** LariosO@lamission.edu**Canvas:** <http://lamission.edu/canvas>**Lab (CMS 110):**

Saturdays: 7:50 AM - 11:00 AM (#15233)

Saturdays 12:20 PM - 3:30 PM (#15317)

Important Dates:

Refund Deadline: 2/23/2020

Drop w/out a W: 2/23/2020

Drop w/ a W: 5/10/2020

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 IGETC 5B 5 CSUN B2 B3

COURSE MATERIALS:

1. Simon et al., Campbell Essential Biology, Pearson, 6th ed 2019. **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. 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 = 10 Points

Lecture:	Points	Page #
Exams	250	3
Final Exam	200	3
Quizzes	240	3
Homework	30	3
Re-do Notebook	20	3

Lecture Total = 740

Lab:	Points	Page #
Lab Exercises	100	4
News Article Review	50	4
Final Practical Exam	100	4

Lab Total = 250

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:

10 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; administered at any time of a lecture. Be sure to do 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 will result in direct questioning from the day's topic and your correct answers will be used for participation points.

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; for study guides (check with me).

No electronic devices such as laptops, tablets, etc... are allowed for note taking (unless permitted by me).

No use of cellphone is permitted during my lectures. This includes texting/messaging, making/answering a call, searching the web etc... **At the start of class, your phone is to be placed at the head of your table, upside down, set at no volume & at no vibration.** If I see you distracted due to talking/whispering or the use of an 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 notify our dean and I will file a report against your misbehavior in class.

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 Re-do notebook

LECTURE:

Exams/Final:

450 Points

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

1 Lecture final: worth 200 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. All electronic devices (including but not limited to smartwatch, tablet, laptop, cell phone, etc...) must be turned off and be placed out of sight. I may assigned a seating chart or ask you to move to a different seat on the day of the Exam and when I do, please do so quietly. Further instructions will be provided on the day of the Exam/Final (orally or written on your hardcopy). Failure to follow any of the instructed rules may result in a zero. **See Make-up/Absences policy (Pg 5).**

If you arrive 30-minutes or more late, you will not be allowed to take the Exam. If you arrive under 30-minutes late, you will not be awarded extra time to finish the exam.

Quizzes:

240 Points

5 Post-Quizzes (form #815E); 40 points each. Given at our next meeting after the Chapter(s) have been completed.

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

4 Pre-Quizzes (Line paper); 10 points each. Issued at any time of the Chapter. *Multiple choice/short answers/essay*

Ch. 4 (Pre-Q1); Ch. 6 (Pre-Q2); Ch. 8 (Pre-Q3); Ch. 10 (Pre-Q4)

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 use your **redo-notebook** for one post-quiz (majority vote). 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 assigned a seating chart or 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. **See Make-up/Absences policy (Pg 5).**

If you arrive 10-minutes late or I am on question #2 of the post-quiz, please wait outside the classroom until we are done with the quiz. I may lock the door to avoid interruptions. Further instructions will be provided on the day of the Quiz.

Homework:

30 Points

6 points per homework assignment. 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(s) to **Canvas as a PDF (2pt)**. Your submission must include a **minimum of 300 words (4pt)**. Submission by email or an unreadable/not gradable format will 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. If Canvas announces a technical difficulty then an exception will be made for a due date extension. Also, if the HW Chapter is not started on the coming class, then the due date will be extended. 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. It is your responsibility to keep up with the course and know which chapters we will be covering weekly. Include **your name, course name, semester and year, and the date** you wrote your summary on the top right corner of the page. The 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, Exams and 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. Less than 300 words = 1-3pts off (depending on word count).

Plagiarism: +30% = -1pt; +40% = -2pts; +50% = -3pts; +60% = -4pts; +70% = zero on the assignment.

Topics include:

Ch. 4 = Cellular Organelles

Ch. 6 = Cellular Respiration

Ch. 8 = Mitosis/Meiosis/Cell Cycle

Ch. 9 = Genetics/Patterns of Inheritance

Ch. 10 = DNA Replication/Gene Expression.

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. Be sure your re-do notebook is legible and easy to follow. Do not cut and glue/tape slides from the Powerpoint lectures. **You must bring your in-class and re-do notebooks to class each day we meet.**

LABORATORY:

Lab Exercises: 100 Points

Each lab activity is worth 7 points, which will be based on your lab participation and pop quizzes. 2 additional lab points will be granted on the day of the lab practical.

Lab participation includes: having a print out of the lab exercise/lab manual, arriving no more than 10 minutes late, staying for the whole duration of the lab period, assisting the members of your team on completing the assigned work (lab exercises), following clean-up procedures before and after each lab exercise, asking questions, and not disrupting the class (see **participation**).

Do not underestimate the value of these points! Every semester some students lose a whole grade because of absences, tardies, failure to participate in lab experiments, or failure to complete laboratory pre/post labs on-time.

Lab Practical Exam: 100 Points

There will be a **Final Lab Practical Exam, worth 100 points** covering labs 1-14

The lab practical exam will consist of an essay/written format. Topics will encompass the material covered in lab and found in the Lab Manual. The best way to prepare for this exam is to work through each lab exercise thoroughly and make sure you understand the answers to all the lab and quiz questions throughout the semester. You are always welcome to seek my help with questions found in the lab manual or any concept you need clarity. **You will be permitted to use your lab manual for the lab practical exam.**

News Article Review: 50 Points

The News articles must be relevant to the topics taught in the course (lecture/lab; see course schedule).

1. Due by **Sunday, April 12th at 11:59PM.** (10 points)

(NOTE: Canvas may use Eastern Time; be sure to submit before 9pm P.T.)

Submitting the News Article assignment late will result in an automatic 30% point deduction.

2. Find **at least 3 relating articles** published within the last two years and summarize each. (9 points)

Acceptable Sources: Yahoo news, Google news, News360, BBC, CNN, AP news, National/city newspapers.

- For all other sources, you must check with me 2 weeks before the due date
- No science journals, no websites from organizations, no institutional articles (including educational)
- If having difficulty, search local/national newspapers such as LA Times, etc... for similar stories

3. Type **at least 1,000 words** describing the importance of the articles, your thoughts and opinions about the findings, how the articles pertain to the course (lecture and/or Lab). (10 points)

I must be able to connect the details from all 3 articles to any of the material covered in the course.

4. Your article review must contain **at least 5 paragraphs** including an Introductory paragraph, the body paragraphs (one for each article), and the Concluding paragraph. Do not submit 3 separate reviews each with 5 paragraphs. (5 points)

5. **You must** include your name, course name, semester and year at the top of your first page. (5 points)
You must **provide a Title** to your assignment and placed at the center of your first page.
Your title must **reflect the idea/concept** of all three articles.

6. **Reference page** should be in APA format and found at the last page of your article review. Must include the author, published date, article's title, Newspaper title in italics. If found online, you must also provide the Website's URL and the date you accessed the article. (5 points)

7. Your article review must be typed and submitted as a **PDF through Canvas**. I will not read/proofread hardcopies, nor attachments on emails in advance. Submission by email or an unreadable/not gradable format will not be accepted and it will be given a zero points. (6 points)

MAKE-UP POLICY/ABSENCES:

If you know you will be missing an exam or post-quiz, you must contact me by e-mail at least three days in advance. If your absent time is for a medical/legal reason, please bring documentation on your next attendance. This documentation must be dated and signed by a doctor or legal professional. Your medical/legal reason should not exceed more than 6.0 instructional/class hours. Once I determine your absence being legitimate, I will offer you a make-up exam/post-quiz on an acceptable time frame. **There is no make-up policy for the Final lecture and Lab Practical.**

When absent, it is your responsibility to know what you missed. I highly recommend you obtain another student's contact information and inquire for such details. Any emails directed at me in regards to your day(s) missed work may not be responded. You chose to be absent and it is not my obligation to be held responsible to inform you on what you missed.

You may miss only one post-quiz (non-medical/legal). The one missed post-quiz will be replaced with your average post-quiz score at the end of the semester. **There is no make-up for any of the pre-quizzes.**

GENERAL COMMENTS:

Do not be shy. I am here to help you learn and it is a pleasure for me to give extra help when requested. Do not fall behind! 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 while working together. Come to class prepared to help one another.

Ask questions! There is no such thing as a stupid question. The chances are that if you don't know what is going on, 80% of the class is also clueless, waiting for someone to ask. We have all been there before. So speak up!

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. 10															___/10
Lab 100	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/7	___/100
Post-Quiz 200				___/40			___/40		___/40	___/40			___/40		___/200
Pre-Quiz 40				___/10		___/10		___/10		___/10					___/40
HW 30				___/6		___/6		___/6	___/6	___/6					___/30
News 50															___/50
Exams 250							___/100			___/150					___/250
Lab Pract 100															___/100
Final 200															___/200
Re-do Notebook 20															___/20

Bio 3 Spring 2020 – Laboratory Schedule

*Class lectures may proceed lab experiments

Week	Date	Topic	Lab Exercise
1	Feb. 15th	Non-Instructional Day	-
2	Feb. 22nd	Scientific Method & Metric System	1 & 2
3	Feb. 29th	Molecules & pH	3
4	March 7th	Macromolecules	4
5	March 14th	Microscope	5
6	March 21st	Enzymes	6
7	March 28th	Cellular Respiration	7
8	April 4th	Photosynthesis	8
9	April 11th	SPRING BREAK	-
10	April 18th	Mitosis & Meiosis	9
11	April 25th	Genetic Inheritance	10
12	May 2nd	DNA & Gene Expression	11
13	May 9th	Natural Selection	12
14	May 16th	Cardio Health	13
15	May 23rd	Plant Kingdom	14
16	May 30th	Lab Exam	1-14
17		No Lab	-

Bio 3 Spring 20120 – Tentative Lecture Schedule

*Homework: Youtube video

Students will be responsible for the material to be covered for course examinations according to the tentative agenda.

Week	Week of	Topic	Chapters
1	Feb. 12th	Introduction: Biology Today Essential Chemistry for Biology	1 2
2	Feb. 19th	The Molecules of Life A Tour of the Cell	3 4*
3	Feb. 26th	The Working Cell Cellular Respiration	5 6*
4	March 4th	Cellular Respiration Photosynthesis	6* 7
5	March 11th	Photosynthesis	7
6	March 18th	Exam 1 Cellular Reproduction	3-7 8*
7	March 25th	Cellular Reproduction Patterns of Inheritance	8* 9*
8	April 1st	Patterns of Inheritance Structure and Function of DNA	9* 10*
9	April 6th - April 12th	SPRING BREAK	-
10	April 15th	Structure and Function of DNA DNA Technology	10* 12
11	April 22nd	DNA Technology	12
12	April 29th	Exam 2 Movie	8-12 Video
13	May 6th	How Populations Evolve How Biological Diversity Evolves	13 14
14	May 13th	How Biological Diversity Evolves The Evolution of Microbial Life	14 15
15	May 20th	The Evolution of Animals Nutrition and Digestion	17 22
16	May 27th	The Body's defenses Nervous, Sensory, and Motor System	24 27
17	June 3rd	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.
- You must earn at least a 70% on the Final exam and at least a 70% on the Final Lab Practical (if Lab points are included on the Points Distribution) or you will receive **zero extra credit points**.
- 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**