

Antelope Valley College  
Fall 2020

Biology 110- General Molecular Cell Biology Lab  
Online, Zoom link will be provided in Canvas  
Wednesdays 1430-1735  
Course # 76953

**Instructor: Dr. Jedidiah Lobos**

**Office Hours: MW 0925-1025 & 1300-1400, TR 1630-1800 through Zoom**

**E-mail: [jlobos@avc.edu](mailto:jlobos@avc.edu) or [LobosBiology@gmail.com](mailto:LobosBiology@gmail.com) (enter "Bio 204" on the subject line or e-mail may be overlooked)**

**Website: <http://LobosBiology.com>**

**Sheriff Department Emergency Contact Number**

- Dial direct: 661-722-6399
- From campus phone #4444 or #6399

**Materials Needed:** You will need a bound notebook (composition or spiral-bound) and a computer with webcam (in order to interact through Zoom and for Proctorio)

**Course Description:** See lecture syllabus

**Course Objectives:** See lecture syllabus

**Student Learning Objectives:** See lecture syllabus

**Concurrent Enrollment & Course Prerequisites:** Completion of MATH 102 and Completion of CHEM 110.

Advisory: Completion of a general biology course is recommended. Eligibility for College Level Reading and Eligibility for ENGL 101

**Disruptive or Disrespectful Behavior:** Disruptive or disrespectful behavior will not be tolerated in the class. Examples of such behavior may include talking while others in the class (including the instructor) are talking and disregard of any of the policies that are outlined in this syllabus. If you need to step away or speak to someone while in class, please ensure that your microphone/camera is off and then step away.

**Cell Phone Policy:** Use of cell phones is disruptive to the class (including an online class). Please turn your cell phone completely off or silence it during class. Advise people who might call you that they should not do so during the scheduled class time. Cell phones may not be answered during a class session, unless it is during an instructor authorized break. It is also not permitted to send text messages while class is in session.

**Tardiness and Attendance:** Regular and prompt attendance to class is essential both for learning and active participation in the class. Each student needs to be present to hear about any schedule changes, general information about the class, and the lecture itself. In addition, quizzes may be given at the beginning of a class session. Students who arrive five minutes after a quiz is administered will not be allowed to take the quiz. Attendance may be taken at any time during class and in any manner as deemed appropriate by the instructor. **If a student's absences in a specific class exceed the number of hours the class meets per week, the student may be prohibited from further attendance in the class.** The first two days of class are important, therefore missing any one of these days means the student might be dropped from the class.

**Evaluation:** Your grade will be computed based on the following criteria:

- Quizzes= 120 pts
- Lab participation and skills= 50 pts
- Lab notebooks= 100 pts
- Lab practicum= 80 pts

**This adds up to a total of 350 for the lab alone.**

**Extra Credit:** At the instructor's discretion, extra credit opportunities may be offered to all students in the class, however, students should not assume that "extra credit" opportunities will automatically be given, and there will be no "individualized" extra credit assignments.

**Lab Notebook:** You will be required to keep a lab notebook for the semester. It must be a bound notebook (either a composition book or spiral bound book). You need to leave the first 5 pages blank for a Table of Contents. For each lab, you will have the following: Date of the experiment, Title of the experiment, Purpose, Materials and methods used, Results, and Conclusions. **Because of our current situation, this may be done as a DIGITAL NOTEBOOK, which is then submitted as a combined PDF at the end of the semester.**

**Quizzes, Practica and Exams:** The quizzes and exams may consist of multiple choice, true/false questions, short answer or essay questions and the format may vary from quiz to quiz. The format of exams, isolate submissions, notebooks, etc. will be explained in class. Except for excused medical or certified family emergencies or recognized religious holidays, no makeup quizzes, practica or exams will be given. Quizzes and exams will be given on the day scheduled. At the discretion of the instructor, additional short quizzes or practica may be given on any class day as part of the evaluation of lab technique or preparation/participation components. Caps or sunglasses may not be worn during a quiz, practicum or exam. The instructor reserves the right to adjust testing conditions, randomize and assign seating for a quiz or exam, rearrange students during a quiz exam, or to immediately terminate the quiz or exam of any student who, in the opinion of the instructor, is caught cheating. **Proctorio will be used to monitor your testing sessions.**

**Preparation and Participation:** Every student is expected to be actively involved in the laboratory sessions and to come to each session prepared (having thoroughly read and studied the corresponding lab exercises or handouts assigned). Each student should also participate by working well with lab partners, contributing ideas or information, or asking questions. The instructor, using various means as he deems appropriate, will assess student preparation and participation, including attendance.

**Lab Technique, Skills and Safety:** The instructor, using various means as he deems appropriate, will evaluate each student on general lab technique, skills, and ability to work safely.

**Withdrawal Information:** It is the student's responsibility to withdraw from a class. If you fail to withdraw by the appropriate date, you will receive the letter grade you would have earned at the end of the semester. For this term, the last day to drop with a "W" is **11/6/2020**.

### **Incompletes**

A grade of "I" (Incomplete) will not be given simply due to poor performance in the course. An "I" is to be used only when a portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen but fully justified reasons. A substantial portion of the course requirement must have been completed with a passing grade and there is still the possibility of earning credit. The work that is incomplete normally should be of such a nature that it can be completed independently by the student for later evaluation by the instructor. An incomplete will not be assigned when a student would be required to attend a major portion of the course when it is next offered. Students who believe they meet the necessary conditions to be assigned an incomplete arrange to meet in person with the instructor. The process should be completed in person prior to submission of final grades by the instructor. Students are encouraged to read and understand the statement on incompletes in the current Antelope Valley College Catalog.

**Reasonable Accommodations:** If you have a legally protected disability under the Americans with Disabilities Act (ADA) or California discrimination law, and you believe you need reasonable accommodation to participate fully in this class, please make an appointment to see me(s) during office hours to discuss your need(s).

**Academic Honesty:** Cheating of any kind will not be tolerated. If a student is caught cheating, the instructor reserves the right to assign the assignment, quiz, or exam a grade of "F" to the student caught cheating. **From the 2016-2017 AVC Catalog: (a) Violation of the Academic Honesty Policy:** Dishonesty, including but not limited to, cheating or plagiarism. Plagiarism – from the Latin word for "kidnap" – involves using another's work without giving proper credit, whether done accidentally or on purpose. This includes not only works and ideas, but also graphs, artwork, music, maps, statistics, diagrams, scientific data, software, films, videos and the like. Plagiarism is plagiarism whether

the material is from published or unpublished sources. It does not matter whether ideas are stolen, bought, downloaded from the internet, or written for the student by someone else – it is still plagiarism. Even if only bits and pieces of other sources are used, or outside sources reworded, they must still be cited. To avoid problems, students should cite any source(s) and check with the instructor before submitting an assignment or project. Students are always responsible for any plagiarism in their work. An instructor who determines that a student has cheated or plagiarized has the right to give an “F” grade for the assignment or examination. Antelope Valley College reserves the right to utilize electronic means to investigate possible academic violations. Enrollment in any class implies student agreement and consent that all assignments are subject to submission for textual similarity review to an electronic database. **(b)** Violation of class assignments, examination rules, e.g., communicating or transferring information to another student, using any materials such as books, notes, etc., other than those expressly allowed for the exam, looking at another student’s exam, etc. **(c)** Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including, but not limited to, handwritten or typewritten class notes, except as permitted by any college policy or administrative procedure.

**AB 705:** Based on statewide research and the newly enacted AB 705 legislation, Antelope Valley College students are eligible to begin English and mathematics courses at the transfer-level. This is a new process for AVC students that uses high school coursework, grades and grade point average to place students into English and mathematics courses. We want to remind you of the various resources available for academic assistance including workshops and tutoring in the Learning Center and arithmetic to calculus support in the Math Computer Lab in ME 100. To see a complete list of English, reading and mathematics workshops, visit <https://www.avc.edu/student-services/lc/>. We encourage you to visit the Math Computer Lab and use these resources for support with your courses. Do not hesitate to ask for help, and we hope you have a great semester!

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<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Other</b>
1	8/19	<b>Introduction, The Metric System, Microscope</b>	
2	8/26	<b>Microscope (cont)</b>	
3	9/2	<b>Anthocyanidin experiment, Diffusion and Osmosis</b>	
4	9/9	<b>The Kingdom Protista, Solution and Dilution Problems</b>	<b>Lab quiz #1</b>
5	9/16	<i>Euglena</i> growth experiment	
6	9/23	<i>Euglena</i> Culture (cont)	<b>Lab quiz #2</b>
7	9/30	<b>Chromatography of <i>Drosophila</i> Eye Pigments</b>	
8	10/7	<b>Enzymes, Absorption Spectra of Photosynthetic pigments</b>	<b>Lab quiz #3</b>
9	10/14	<b>Photosynthesis</b>	
10	10/21	<b>Cellular Respiration</b>	<b>Lab quiz #4</b>
11	10/28	<b>Transformation of Chemically-Competent <i>E. coli</i></b>	
12	11/4	<b>Isolation of GFP from Transformed <i>E. coli</i></b>	<b>Lab quiz #5</b>
13	11/11	<b>Veteran's Day</b>	
14	11/18	<b>Restriction Enzyme Digestion &amp; Agarose Gel Electrophoresis, Bradford assay</b>	
15	11/25	<b>Lab Practicum</b>	
16	12/2	<b>No lab</b>	
		<b>Topics and dates are subject to change with notice</b>	