

Los Angeles Mission College
Fall 2020 (8/31/2020 - 12/20/2020)

This is an interactive syllabus. Click on the underlined words and you will be connected to a website!

Introduction to Human Physiology – Physiology 1

Lecture: M & W 12:15-1:40 PM – synchronous lecture on zoom section#13768

Lab: Section #13774: M 1:50 - 5:00 PM – synchronous lab on zoom
Section #17390: W 1:50 - 5:00 PM – synchronous lab on zoom

Instructor: *Dr. Par* Mohammadian, RPh, PhD

Office Hours: M & W: 11:30 AM -12:15 PM or by appointment on zoom – please email me in advance!

Contact information: Preferred: mohammp@lamission.edu & (818-833-3424)

<https://ilearn.laccd.edu/login/canvas> includes additional LAMC resources available to you

Important dates: [Click on this link to see the important campus dates!](#)

Last date to enroll with a permission number: 09/13/2020; Last date to drop this class without a "W": 09/13/2020;
Last date to drop with a "W": 11/22/2020; November 01, 2020: Deadline to file Graduation Petition for Fall 2020

Course Description: Physiology 1 examines the function of the following human systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, lymphatic, and reproductive. Labs include many hands-on and computer-assisted applications. **Prerequisites:** Biology 3 or 5, Anatomy 1, Chemistry 51 or 65 or 101.

Articulation: You are encouraged to view articulation agreements at <http://www.assist.org>.

Honors program: <http://www.lamission.edu/Honors/Home.aspx>

Student Learning Outcomes:

- 1) Physiology 1 students will analyze a fundamental homeostatic process of the human body.
- 2) Physiology 1 Students will demonstrate an understanding of the integration of functions across many levels of physiological organization, from molecules to the entire human body.

Required Books:

✓ **Textbook: Human Physiology, FOX (15th Edition); ISBN 978-1-259-86462-9 (14th edition is acceptable)**

Lab: Mastering code required (**no lab manual required**) – <https://www.pearsonmylabandmastering.com/northamerica/>

✓ & See Canvas –purchase of the mastering code is required. See Canvas for more information.

Course ID: mohammadian81583



Evaluation and Grading

1. Exams (480+180=660 points):

There will be 4 exams each worth 120 points (total = 480) and a comprehensive final examination (180 points). There will be no make up with exception of documented emergency or official excused absences. It is the responsibility of the student to notify the instructor within 24 hours and present her with required documents. The approval to make-up the exam is at instructor's discretion or the instructor may decide to use the percentage earned on the next examination counted for that missed score. Students will not receive any points for missed and unexcused exam(s). The exams are administered in the beginning of the class and if a student is tardy, they will not be allowed to take the exam. Students should arrange all personal, family, and vacation plans accordingly. These occasions are not considered as excused absences.

2) Lab sessions and participation (220 points): The lab work on the mastering, reports, and participation will be worth 220 points. For due dates see the Canvas shell. The information in your lab will be included in your exams. For any plagiarized lab you will receive an F and will also be reported to the Dean's office.

3. Presentation of a scientific topic (40 points):

You will work with at least two more team members (group of three students) on a presentation. Your group will present during the lab time (see the syllabus outline). The presentation will be submitted in one power point file for the presentation on Canvas. Each student will present one section of the topic and they will be evaluated and graded *individually*. However, since it is a group work, the topic will be researched and organized as a group. All members of the group are required to know about the entire presented topic. You will be evaluated based on criteria listed in rubrics on Canvas. The presentation will only be 30 min; each student will have exactly 10 minutes (you will be also evaluated on the time). At the end of the 30-min presentation, 30 minutes will be assigned to questions/discussions. If you are not on time or miss your presentation, you will receive zero. The topic should be divided as follows: 1) *physiology/pathology (first present the structure and function of the system that you are assigned to in a healthy state and then discuss where –organ – what – function – the problems lie)*, 2) *symptoms (why they would show these symptoms – relate to the pathophysiology) & diagnosis*, and 3) *treatment (e.g. medications, procedures, and nutrition – do not list the names of the medications; discuss the types of medications – and why they help the diseased organ or function. Relate to the pathophysiology. Apply the same principles to the side effects of the medications. Make sure you discuss this with me before your presentation)*. You are required to use resources, such as textbook and peer-reviewed journals in [EBSCO](#). (When choosing your topic, present at least three related abstracts that are published in peer-reviewed journals. You have free access to full texts on [EBSCO](#) through LAMC library).

4. Homework on mastering (40 points): Check the due dates on Canvas.

5. Case studies (40 points): At the end of each chapter (exception chapter 1), you will find case studies that you are required to know, answer in detail, and submit on Canvas. See Canvas for due dates. *Include the page number(s) where you read the answer in the book.* Obviously, you are required to read and understand the chapter and reflect before answering the questions. **Please note that these maybe on your exams and also cases at your real work in the future.** See the case study rubric on Canvas.

<u>Evaluation</u>	<u>Number</u>	x	<u>Points</u>	=	<u>Total</u>	<u>Percentage</u>
Exams	4		120		480	48%
Labs & Participation					220	22%
Homework on mastering			40		40	4%
Presentation	1		40		40	4%
Case studies			40		40	4%
Final Exam	1		180		<u>180</u>	<u>18%</u>
					1000	100%

Grading Scale: A: 90-100% (900-1000 points)

B: 80-89% (800-899 points)

C: 70-79% (700-799)

D: 60-69% (600-699 points)

F: <60% (<600 points)

Cheating:

Cheating and plagiarism in any form will result in an automatic F and dismissal from the course. Definition of cheating and plagiarism: <https://academicprograms.calpoly.edu/content/academicpolicies/Cheating>

Students with Disabilities:

Students with disabilities are encouraged to contact Disabled Student Programs & Services (DSPS) to find out what services and accommodations are available. In general, recording of the lectures are not allowed unless the student can provide a letter from the DSPS office indicating the need for recording the lectures.

ATTENDANCE:

You are required to attend all zoom meetings (class and labs). If you miss (or tardy or leave early) two or more class sessions/labs, you will be dropped from the class. In case of an emergency or any other pertinent issues that prevents you from attending the zoom meetings, please contact me right away. You are responsible for all information and instructions given in zoom class/lab. Stop attending the class/lab does not mean that you are automatically dropped. It is your responsibility to officially withdraw from the class if you decide to do so.

General Comments and Suggestions

There is no easy way – you must study to succeed. If you are not prepared to study this semester, that is OK. Just take the class when you are ready to devote time to this course.

You must read the textbook in this class. You will not remember it all the first time through. That is what lecture is meant to be! (1) Read the text (2) Attend lecture (3) Study the text and lecture notes.



Do not fall behind! This is a fast-paced course that covers a lot of material with relatively few class meetings. Seek help before you begin to get in trouble.

Come to class prepared! This cannot be overemphasized. Casually reading the text before the lecture can help. Lectures are intended to assist you in organizing and understanding material that can be detailed and complex. Becoming familiar with the vocabulary and the concepts will make the lectures much more interesting and instructional. **Laboratory time is limited, and everyone must know what is to be accomplished in advance.**

Work together! Form a study group on zoom! Come to class/lab prepared. Tutoring and workshops are provided; check this website for hours and locations: <http://www.lamission.edu/learningcenter>.



- **Ask questions!** There is no such thing as a stupid question. The chances are that if you do not understand something, 80% of the class is sitting there as ignorant as you and is waiting for someone to ask. We have all been confused at some point, so speak up!

Plan to study at least 6 hours per week for this class (3 hours of class time x 2 = 6 hrs effective study time at home)! And an additional 2-4 hours to prepare for the lab. A total of 6-8 hours minimum ☺. Experience has shown that your grade in this class correlates with the hours that you study at home.



Lecture/Laboratory Weekly Schedule

Physiology 1 – Fall 2020; Los Angeles Mission College; Instructor: Dr. Par Mohammadian

Date	Lecture (Lecture notes on Canvas)	Laboratory (see Canvas)	Homework & other Assignments (See Canvas)
Week 1 M 8/31	Introduction to Canvas Review of Syllabus Ch1: Introduction	-Lab 1: Scientific experimentation Laboratory Safety; Gallery Walk; Library database / Articles: Review & Analysis Choose your presentation topic/date	<i>Mastering Homework & Chapter Case Studies: See Canvas for due dates! Note: Ch 1 does not have case studies.</i>
W 9/2	Ch 2: Chemistry - review Ch 3: Cells - review	-Lab 1: Scientific experimentation Laboratory Safety; Gallery Walk; Library database / Articles: Review & Analysis Choose your presentation topic/date	
Week 2 M 9/7	Labor Day HOLIDAY		<i>Submit at least three peer-reviewed articles that are related to your topic. Counted toward your presentation grade.</i>
W 9/9	Ch 4: Enzymes - review Ch 6: Cell interactions - review	-Reading Apprenticeship -Lab 2: Cell transport	
Week 3 M 9/14	Ch 7: Nervous System	-Reading Apprenticeship -Lab 2: Cell transport	
W 9/16	Exam #1 (Med. Terminology, Ch 1-4, 6)	-Lab 3: The Nervous System	
Week 4 M 9/21	Ch 7: Nervous System	-Lab 3: The Nervous System	
W 9/23	Ch 8: CNS	-Lab 4: EEG & Spinal Reflexes	
Week 5 M 9/28	Ch 9: ANS	-Presentation #1: Alzheimer's Disease -Lab 4: EEG & Spinal Reflexes	
W 9/30	Ch 10: Sensory	-Presentation #1: Alzheimer's Disease -Lab 5: General & Special Senses	
Week 6 M 10/5	Ch 10: Sensory	-Presentation #2: Parkinson's Disease -Lab 5: General & Special Senses	
W 10/7	Ch 12: Muscle	-Presentation #2: Parkinson's Disease -Lab 6 & 7: Skeletal Muscles & EMG	
Week 7 M 10/12	Exam #2 (Ch 7-10)	-Lab 6 & 7: Skeletal Muscles & EMG	
W 10/14	Ch 12: Muscle	-Presentation #3: Muscular Dystrophy -Lab 6 & 7: (continued) Skeletal Muscles & EMG	
Week 8 M 10/19	Ch 11: Endocrinology	-Presentation #3: Muscular Dystrophy -Lab 6 & 7: (continued) Skeletal Muscles & EMG -Lab 8: The Endocrine System	
W 10/21	Ch 11: Endocrinology	-Presentation #4: Diabetes Type II -Lab 8: The Endocrine System	

Physiology 1; Dr. Par Mohammadian – August 27, 2020 – policies & course outline maybe revised with prior notice!

Date	Lecture (Lecture notes on Canvas)	Laboratory (see Canvas)	Homework & other Assignments (See Canvas)
Week 9 M 10/26	Ch 13: Blood, Heart, Circulation	-Presentation #4: Diabetes Type II -Lab 9: Blood typing	
W 10/28	Ch 13: Blood, Heart, Circulation Ch 14: CO, BF, BP	-Presentation #5: Hypothyroidism -Lab 9: Blood typing	
Week 10 M 11/2	Ch 14: CO, BF, BP	-Presentation #5: Hypothyroidism -Lab 10/11: The Cardiovascular System I & II	
W 11/4	Ch 16: Respiratory system	-Presentation #6: MI & Hypertension -Lab 10/11: The Cardiovascular System I & II	
Week 11 M 11/9	Exam #3 (Ch 11-14)	-Lab 11/12: The Cardiovascular System II & BP	
W 11/11	Veterans Day holiday		
Week 12 M 11/16	Ch 16: Respiratory system	-Presentation #6: MI & Hypertension -Lab 11/12: The Cardiovascular System II & BP	
W 11/18	Ch 18: Digestive System	-Presentation #7: COPD & Asthma -Lab 13: The Respiratory System	
Week 13 M 11/23	Ch 18: Digestive System	-Presentation #7: COPD & Asthma -Lab 13: The Respiratory System	
W 11/25	Ch 17: Urinary System	-Presentation #8: Celiac Disease OR GERD -Lab 14: The Digestive System	
Week 14 M 11/30	Ch 17: Urinary System	-Presentation #8: Celiac Disease OR GERD -Lab 14: The Digestive System	
W 12/2	Ch 20: Reproductive System	-Presentation #9: UTI -Lab 15 & 16: Acid/Base & The Urinary System	
Week 15 M 12/7	Ch 20: Reproductive System	-Presentation #9: UTI -Lab 15 & 16: Acid/Base & The Urinary System	
W 12/7	Exam #4 (Ch 16-18)	Review for the final exam	
Week 16 M 12/14	Final Exam (cumulative): At 12:30 pm		

“MANAGEMENT OF STRESS AND MENTAL HEALTH: As a student, not only do you have the pressure of succeeding in school, you may also be contending with work, financial issues, relationships, managing time effectively, getting enough sleep, etc. The staff and faculty of Los Angeles Mission College are here to provide support that will help you to be successful in your academic pursuits. You can learn more about the broad range of confidential student services offered on campus, including counseling and mental health services, by either visiting the Student Health Center (SHC), which is located next to the business office/administrative services, checking out the SHC webpage at: <https://www.lamission.edu/healthcenter/> or calling: 818 362-6182. I also encourage you to enter the **National Suicide Prevention Lifeline number (1-800-273-8255)** into your cell phone in case you or someone you know is in distress and needs someone with whom to talk.

Code of Honor and Integrity
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:

By enrolling in this course, you commit to integrity in all aspects of your work, whether quiz, exam or other assignment. Unless your instructor explicitly states otherwise, the work you submit should be your own and convey what you yourself have actually learned. This also means that you agree to follow the Standards of Student Conduct from the college catalog and will not engage in: copying another's work; allowing someone else's work to be submitted as if it was your own; using resources the instructor does not allow during assessments; submitting material without properly citing sources; or self-plagiarism, including submitting work completed for a previous attempt or another course. Evidence of breaking this commitment will result in serious consequences and formal documentation of the incident. If you are unsure if an act constitutes plagiarism or any other violation of academic integrity, be sure to ask your instructor or librarian for clarification.