



**West LA College Physiology 001: Introduction to Human
Physiology**
Fall 2015 Course Syllabus (Section 1726)

Course Description:

Physiology 001 presents the biochemical and biophysical principles underlying the physiological processes of the human being. Lecture topics include the neural and hormonal regulation of bodily processes, and the integration of the organ systems to maintain a constant fluid environment within the body. This course is intended to meet the requirements of students majoring in Nursing, Dental Hygiene, Occupational Therapy, Psychology, Physical Education, and Life Sciences, or for those who wish to extend their knowledge of the human body beyond the scope of introduction.

Prerequisites:

Anatomy 001 must be completed with a grade of 'C' or better prior to taking this course. Recommended: English 101 and Chemistry 51.

Instructor:

Bryon Curletto
Office: MSB 225
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Email: curletbj@wlaac.edu

Office Hours:

Tuesday 1:00 pm – 3:00 pm
Wednesday 9:30 am – 11:30 pm
Friday 1:00 pm - 2:30 pm or by appointment

Section:

1726 Lecture: Monday, Wednesday 12:00 pm – 1:25 pm in MSA 211
Laboratory: Monday, Wednesday 1:50 pm – 3:15 pm in MSA 211

Course Materials: The following materials are considered required for the course.

- Textbook: ***Human Anatomy & Physiology, 9th edition by Marieb***
NOTE: Older editions have worked fine for past students; please be aware that some content has changed since earlier editions.
- Lecture exams: **Scantron Form 882-E**

Student Learning Outcomes: Upon successful completion of this course students will be able to:

1. Accurately measure the heart rate, blood pressure and record and evaluate an electrocardiogram.

2. Explain the chemical basis of life and how these chemicals can affect the function and health of the human body
3. Describe the structure and function of the major cell types within the human and how this function is critical to human health
4. Explain the function of the cellular components of a human cell
5. Describe the structure and function of the human nervous system, including the functional roles of the somatic nervous system, the autonomic nervous system and special senses
6. Describe the structure and function of the human cardiovascular system, including an understanding of how cardiac function (e.g. cardiac output, arterial blood pressure) impacts homeostasis
7. Describe the structure and function of the human respiratory system, including an understanding of respiratory pressures, respiratory volumes and the function of hemoglobin in oxygen transport
8. Describe the structure and function of the human digestive system, including an understanding of digestive enzymes and their impact on human nutrition
9. Describe the structure and function of the human urinary system, including an understanding of renal filtration and how it impacts blood and urine composition
10. Describe the function of the endocrine system, including an understanding of the human reproductive system

Lecture and Laboratory Exams:

- There are 4 lecture exams and a final. The final lecture exam will contain both cumulative questions and questions from the last chapters. Exams may consist of any combination of multiple choice, fill in the blank, true/false, and short answer questions. Lecture exams will focus on material presented in lecture. Laboratory activities which may include quizzes will focus on material presented in lab.
- Lecture and laboratory quizzes must be taken at the times scheduled. If dire circumstances dictate that you need to take the exam at an alternate time, you must notify me before the exam is scheduled. Missed exams must be taken within two days (48 hours) of the original exam and will not necessarily be the same format as the original exam. There will be no points given for unexcused missed exams.

Attendance:

- Attendance in lecture is important, but not mandatory. If you miss a lecture, you are responsible for catching up with the missed class material. **Attendance in laboratory will be tracked.** Contact me in advance if you think you might miss a lab, and we can attempt to make arrangements for you to attend lab with a different section. **Lab assignments are due at the beginning of the next laboratory. Late assignments will not be accepted.**
- It is your responsibility to drop the class if you stop attending. Students who remain enrolled beyond the withdrawal deadline (11/20/15) must receive an evaluative letter grade. A "W" cannot be assigned to any student enrolled after this date.
- It is at the instructor's discretion to drop students for non-attendance or participation any time during the allowed drop/withdrawal period for the course.

Electronic Devices:

Cell phones, electronic dictionaries, and other electronic devices are not allowed during lecture or labs exams. In consideration of myself and your classmates, **PLEASE TURN OFF OR MUTE CELL PHONES** during class. No calls, texting, internet or the like inside class. You must obtain permission if you would like to record the audio or video of any aspect of lecture or lab. You must obtain permission to take photos in laboratory.

Cheating/Plagiarism:

Cheating of any kind will not be tolerated. Students who violate the LACCD Student Code of Conduct will receive a grade of zero on the assignment, homework, or exam in question and may be referred for disciplinary action in accordance with student disciplinary procedures.

Grading:

You will be assigned one grade that combines both your lecture and lab scores. You are guaranteed to receive the grade earned as outlined below based on a percentage of the total points possible. The percentages for letter grades may change depending on the performance of the class overall i.e.; some exams and/or the class overall may or may not be curved.

A = 90 to 100%
B = 80 to 89%
C = 70 to 79%

D = 60 to 69%
F = below 60%

Scores will be rounded to the nearest ones place. For example: 79.5% = 80% (B)

Distribution of Points:

	Each	Total
Lecture Exams (4)	100	400
Final Lecture Exam (1)	200	200
<u>Lab Activities</u>	<u>Varies</u>	<u>200</u>
Total points possible		800

Important Dates:

- 9/11 Last day to add class. Last day to drop full-term classes and qualify for refunds.
- 9/11 Last to drop classes without a grade of “W”
- 11/20 Last day to drop with a grade of “W”

Lecture Schedule

Date	Topic	Chapter
8/31	Introduction	
9/2	Biological Chemistry & Cell Cycle Review	3
9/7	Embryology/Hereditry	28,29
9/9	The Nervous System	11
9/14	The Nervous System	11
9/16	The Nervous System/Special Senses	15
9/21	Lecture Exam 1	3,28,29,11
9/24	The Muscular System	9
9/28	The Muscular System	9
9/30	The Endocrine System	16
10/5	The Endocrine System	16
10/7	The Endocrine System/Blood	16/17
10/12	Lecture Exam 2	9,16
10/14	Blood	17
10/19	Heart	18
10/21	The Cardiovascular System	18/19
10/26	The Cardiovascular System	19
10/28	The Respiratory System	22
11/2	The Respiratory System	22
11/4	Lecture Exam 3	18,19,22
11/9	The Immune System	20
11/11	The Immune System	20
11/16	Holiday - Veteran's Day - No Class	
11/18	The Digestive System	23
11/23	The Digestive System	23
11/25	Nutrition, Metabolism, and Body Temp	24
11/30	Lecture Exam 4	20,23,24
12/2	The Urinary System	25
12/7	The Urinary System	25
12/9	The Reproductive System	27
12/14	The Reproductive System	27
12/16	Final Exam 12:00 pm in MSA 211	Cumulative

* This is a tentative schedule that may change during the course. I will announce changes to the schedule during lecture or by updating the syllabus on Etudes