

Anatomy 1

Introductory Human Anatomy

Los Angeles Mission College – Spring 2013

Lecture: MW 7:15 - 8:40 AM (CMS 105)

Lab: 8:50 AM - 12:00 PM [M section #0110; W section #0111] (CMS 102)

Instructor: *J. Michael Reynolds*

Office Hours: MTuWTh 12:00 – 1:00 PM in Office or CMS 102

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Life Science Web Site - <http://www.lamission.edu/lifesciences>

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Life Science Laboratory Phone (818) 364-7744 and FAX (818) 833-3308

Prerequisite: College-level biology with lab (e.g. Biology 3, 6)

Advisory: English 28 – College-level reading, writing and study skills

Drop class without receiving a W – February 18

Last day to drop without a W – September 24

Last day to drop with W – May 3

Note: (1) There is a new enrollment limit at California community colleges. The limit is now three times to take a class and includes non-passing grades and withdrawals.

(2) It is the responsibility of the student to drop the class on or before May 5 or the student is subject to receiving a failing grade in the class.

Articulation: visit the website assist.org for information regarding articulation with other colleges/universities.

Anatomy 1 is an intensive lecture and laboratory course that includes the study of cells, tissues, and organs of the human body. The lectures correspond closely with the laboratory experience providing the student various modalities to learn about the many organ systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, and reproductive. Use of the microscope and dissection of a cat are highlights of this fascinating course.

Student Learning Outcome

Anatomy 1 students will identify and name different structures of the human body by naming them on visual presentations.

Major Objectives

- (1) To learn the language and fundamental concepts of basic human anatomy 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.

Books

required: Human Anatomy and Physiology, Elaine N. Marieb 9th Edition
"The Pearson Custom Library Anatomy and Physiology - Anatomy 1 - Los Angeles Mission College"

suggested: a medical dictionary (e.g. Dorland's pocket medical dictionary, depending on \$\$\$ you want to spend)

lecture notes: Available online at <http://www.lamission.edu/~reynolmj>; see Anatomy1 on left column

Evaluation and Grading

(1) Quizzes (15 points each)

A quiz will be administered at the start of lecture on 8 different occasions during the semester. Quiz #1 will be given on Monday, February 11 at 7:30 AM (do not be late!!!). Each quiz will take approximately fifteen minutes and will emphasize material covered during previous class meetings. The quizzes are intended to stress the importance of staying up with the material! There will be a total of 8 quizzes worth 10 points each. At the end of the semester the lowest quiz score will be dropped and the average of the all quiz scores will be counted as Extra Credit. **Quizzes cannot be made up!! Do not be late to class!**

(2) Laboratory Review Sheets and Lab Participation (about 15 X 8 = about 120 points)

Students are required to complete the Review Sheets (RS pages) in the Lab Manual for all laboratory exercises. Review Sheets must be returned at the beginning of the next laboratory meeting that is scheduled. The Review Sheets for each of the 15 laboratory meetings will be worth 8 points each. Do not underestimate the value of these points! Every semester some students lose a whole grade because of absence, tardies, failure to participate, or failure to hand-in Review Sheets complete and on-time. Students are encouraged to work together to complete these review sheets, but simple copying will definitely not help you learn the material. **A student who is absent from two or more labs is subject to receiving a failing grade in the course.**

(3) Objective Midterm Exams (3 X 100)

There will be 3 objective midterm exams. **No make-up midterms will be given.** A student who has an excused absence from one midterm only will have the percentage earned on the next examination counted for that missed score.

(4) Lab Practical Midterm Exams (2 X 50 = 100 points)

There will be 2 lab practical exams. The practical exam will involve the “hands-on” identification and understanding of material presented in the laboratory exercises. **No make-up midterms will be given.**

(5) Final Lab Practical Exam (2 X 50 points)

The Final Lab Practical Exam is on Monday, June 6 after the Final Objective Exam. The Monday lab section will be from 9:45 – 10:45 AM. The Wednesday lab section will be from 11:00 AM – 12:00 PM. It will cover all material from all laboratory exercises throughout the semester and the last two weeks of the course. **No make-up Final Lab Practical Exam will be given.** Students should plan their schedule accordingly.

(6) Final Objective Exam (100 points)

The Final Objective Exam is on Monday, June 6 from 7:15 – 9:15. It will include all material covered in the course. **No make-up Final Exam will be given.** Students should plan their schedule accordingly.

GRADING SCALE:

<u>Percentage of Total Points</u>	<u>Letter Grade</u>
100 - 90	A
89 - 80	B
79 - 70	C
69 - 60	D
59 - lower	not passing (F)

Note: Total Points Possible may vary depending on circumstances during the semester.

Student Resources Available

Bookstore: For hours of operation, book availability, buybacks, and other information call 818-364-7767 or 7768 or visit <http://www.lamissionbookstore.com/>

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/>

Financial Aid: For information and applications call 818-364-7648 or visit <http://www.lamission.edu/financialaid/>

Library: For information on hours, resources, workshops, and other services contact 818-364-7106 or visit <http://www.lamission.edu/library/>

Tutoring Services in Learning Center: Laboratories for Learning, Writing, Math & Science. Walk-in and appointment services offered. Call 818-364-7754 or visit www.lamission.edu/learningcenter/

General Guidance and Comments

I will remain after class to answer questions and offer individual assistance. Appointments to meet at other times may be arranged. 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 each student to do the readings, participate actively in the lab, and study diligently at home.

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Did I say that enough times?????

How do I learn this material?

Repetition!

Repetition!

Repetition!

Repetition!

Repetition!

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 find a "fungiform papilla" on a tongue slide. 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 sitting there as ignorant as you, waiting for someone to ask. We have all been there before. So speak up!

Read the assigned text before the lecture! Anatomy is a subject that is learned by **repetition, repetition, repetition**..... Reading and becoming familiar with the topic and the vocabulary will allow the lectures to help make "sense" of the text book and start you on the process of sinking the material into your gray matter!

Additional Materials

Scan-Tron answer sheets will be required for Quizzes and Objective Examinations.

Lecture/*Laboratory* Schedule

<u>Date</u>	<u>Lecture/<i>Laboratory</i></u>	<u>Reading/<i>Lab Exercise</i></u>	<u>Quizzes</u>
<u>Week 1</u>	<i>Organ Systems Overview</i>	<i>pp. 1-10</i>	
M 2/4	Intro to Course; Anatomical Terminology	Chapter 1	
W 2/6	Medical Imaging; Organ Systems Overview	Chapter 1	
<u>Week 2</u>	<i>Classification of Tissues</i>	<i>pp.25 - 42</i>	
M 2/11	Study of Tissues - Histology I	Chapter 4	<u>Quiz #1</u>
W 2/13	Study of Tissues - Histology II	Chapter 4	
<u>Week 3</u>	<i>Integumentary System/Membranes</i>	<i>pp. 49 - 58</i>	
	<i>Bone Classification: Overview</i>	<i>pp. 63 - 70</i>	
M 2/18	No Class – President’s Day		
	Integumentary System	Chapter 5	<u>Quiz #2</u>
W 2/20	Skeletal Tissue	Chapter 6	
<u>Week 4</u>	<i>Axial Skeleton</i>	<i>pp. 75 - 90</i>	
M 2/25	<u>OBJECTIVE MIDTERM EXAM #1</u>	<u>Chapters 1, 4, 5, 6</u>	
W 2/27	The Axial Skeleton I	7: Part 1 – Axial Skeleton	
<u>Week 5</u>	<i>Axial Skeleton</i>	<i>pp. 75 - 90</i>	
	<i>Appendicular Skeleton</i>	<i>pp. 97 - 108</i>	
M 3/4	The Axial Skeleton II	7: Part 1 – Axial Skeleton	
W 3/6	The Appendicular Skeleton I	7: Part 2 – Appendicular Skeleton	
	<u>Quiz #3</u>		
<u>Week 6</u>	<i>Appendicular Skeleton</i>	<i>pp. 97 - 108</i>	
	<i>Articulations and Body Movement</i>	<i>pp. 117 - 130</i>	
M 3/11	The Appendicular Skeleton II	7: Part 2 – Appendicular Skeleton	
W 3/13	Joints	Chapter 8	
<u>Week 7</u>	<u>LAB PRACTICAL EXAM #1</u>		
	<i>Gross Anatomy of Muscular System</i>	<i>pp. 145 - 174</i>	
	<i>Dissection #1 - Cat Muscles</i>	<i>pp. 395 - 410</i>	
M 3/18	Study of Muscle Tissue - Myology	Chapter 9	
W 3/20	The Muscular System I	Chapter 10	
<u>Week 8</u>	<i>Gross Anatomy of Muscular System</i>	<i>pp. 145 - 174</i>	
	<i>Dissection #1 - Cat Muscles</i>	<i>pp. 395 - 410</i>	
M 3/25	The Muscular System II	Chapter 10	<u>Quiz #4</u>
W 3/27	The Muscular System III	Chapter 10	
<u>Week 9</u>	Spring Break – March 29 to April 5		
<u>Week 10</u>	<i>Dissection #1 - Cat Muscles</i>	<i>pp. 395 - 410</i>	
	<i>Histology of Nervous Tissue</i>	<i>pp. 183 - 190</i>	
	<i>Gross Anatomy - Brain & Cranial Nerves</i>	<i>pp. 195 - 212</i>	
M 4/8	<u>OBJECTIVE MIDTERM EXAM #2</u>	<u>Chapters 7, 8, 9, 10</u>	
W 4/10	The Brain	Chapter 12	
<u>Week 11</u>	<i>Spinal Cord, Spinal Nerves, Autonomic</i>	<i>pp. 219 - 233</i>	
	<i>Special Senses: Vision</i>	<i>pp. 245 - 252 (Anatomy only!!!)</i>	
	<i>Special Senses: Hearing & Equilibrium</i>	<i>pp. 265 - 267 (Anatomy only!!!)</i>	
Mo 4/15	Nervous Tissue & Cranial Nerves	Chapters 11, 13	
W 4/17	Spinal Cord & Spinal Nerves	Chapters 12, 13	<u>Quiz #5</u>

<u>Date</u>	<u>Lecture/Laboratory</u>	<u>Reading/Lab Exercise</u>	<u>Quizzes</u>
<u>Week 12</u>	<u>LAB PRACTICAL EXAM #2</u> <i>Dissection #2 - Cat Spinal Nerves</i>	<i>Exercises 15, 17, 19, 21, 24, 25</i> <i>pp. 413 - 417</i>	
M 4/22	General & Special Senses	Chapters 13, 15	
W 4/24	Heart	Chapter 18	<u>Quiz #6</u>
<u>Week 13</u>	<i>Anatomy of the Heart</i>	<i>pp. 297 - 306</i>	
M 4/29	Blood Vessels	Chapter 19	
W 5/1	Autonomic Nervous System	Chapter 14	
<u>Week 14</u>	<i>Anatomy of Blood Vessels</i> <i>Dissection #3 - Cat Blood Vessels</i>	<i>pp. 311 - 326</i> <i>pp. 423 - 432</i>	
M 5/6	<u>OBJECTIVE MIDTERM EXAM #3</u>	<u>Chapters 11,12,13,14,15,17,18,19</u>	
W 5/8	Blood	Chapter 17	
<u>Week 15</u>	<i>Anatomy of Respiratory System</i> <i>Dissection #4 - Cat Respiratory</i>	<i>pp. 333 - 340</i> <i>pp. 435 - 437</i>	
M 5/13	<i>Anatomy of Digestive System</i>	<i>pp. 345 - 360</i>	
W 5/15	<i>Dissection #5 - Cat Digestive</i> Respiratory System Digestive System	<i>pp. 439 - 444</i> Chapter 22 Chapter 23	<u>Quiz #7</u>
<u>Week 16</u>	<i>Anatomy of Urinary System</i> <i>Dissection #6 - Cat Urinary</i>	<i>pp. 367 - 374</i> <i>pp. 445 - 448</i>	
M 5/20	<i>Anatomy of Reproductive Systems</i>	<i>pp. 379 - 387</i>	
W 5/22	<i>Dissection #7 - Cat Reproductive</i> Urinary System Reproductive Systems	<i>pp. 449 - 452</i> Chapter 25 Chapter 27	<u>Quiz #8</u>
<u>Week 18</u>	Reproductive Systems	Chapter 27	
M 5/27	<i>Final Exams Begin</i>		
W 5/28			
<u>Week 19</u>			
M 6/3	<u>FINAL Objective EXAMINATION</u> (7:15 – 9:15 AM) <u>FINAL Practical EXAMINATION</u> (M 9:45 – 10:45 AM; W 11:00 AM – 12:00 PM)		

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.