

**WEST LOS ANGELES COLLEGE
SCIENCE DIVISION**

- I. ANATOMY 001:** Section 0257
MSA 212
- II. SYLLABUS PREPARED BY:** Leelai Abraha, M.Sc.
- III. REVISED FOR:** Summer 2017
- IV. PREREQUISITES:** BIOLOGY 3A or equivalent
Recommended courses: English 28 & Math 115
- V. UNITS AND HOURS:** 4 UNITS; 8 HOURS LECTURE, 8 HOURS LABORATORY
LECTURE: 8:00 AM TO 10:05 PM, MTWTh
LABORATORY: 10:05 PM TO 12:25 PM, MTWTh
- VI. COURSE INSTRUCTOR:** Leelai Abraha, M.Sc.

VII. COURSE DESCRIPTION: This course presents the structure of the human body by subdividing it into individual body systems. It is intended to meet the requirements for students entering Nursing, Dental Hygiene or Occupational Therapy; and for students majoring in Physical Education.

VIII. REQUIRED TEXT: Several textbooks are suitable for use in this course. Here are a few options available (older editions will work just fine)

Option #1: *Human Anatomy, Martini et al.* 7th edition. Benjamin Cummings Publishing. ISBN 10: 0321688155.

Option #2: *Human Anatomy, McKinley & O'Loughlin.* 3rd edition. McGraw-Hill Publishing. ISBN-10: 0073378097

Option #3: *Human Anatomy & Physiology, Tortora et al.* 12th edition. Wiley Publishing. ISBN-10: 0470084715.

The most recent edition of these texts are usually available at most college and university bookstores.

IX. SUGGESTED REFERENCES:

Atlases: Purchasing an atlas may be very helpful if you don't have a smartphone, computer or a tablet. Do not purchase a new atlas, since a used one will be fine. Some excellent atlases are listed below:

1. *Color Atlas of Human Anatomy, Wolf-Heidegger.* Sterling Publishers. ISBN-10: 1402742002
2. *Netter Atlas of Human Anatomy.* 5th edition. Saunders Publishing. ISBN-10: 1416059512

Interactive Media: You might want to pick up one of these interactive CDs since they often have nice pictures of cadavers and models. They are also quite reasonable price-wise. Note the PAL CD is often sold with new texts – so check before you “double order”

1. *Anatomy & Physiology Revealed:* McGraw Hill Publishers. ISBN 978-0-07-337807-7. This one is a bit more expensive than the PAL CD I list below.
2. *PAL: practice anatomy lab.* Benjamin Cummings Publishers. ISBN 0-321-54725-X

Smartphone and Tablet Applications: There are several anatomy apps for smartphones and tablets available, and I highly recommend investing in one of them. They will be especially helpful for the bones and muscle section of the course. I use ***Human Anatomy Atlas by Virtual Body***. It is \$24.99 for the basic version which will show you most of the structures in the body, broken down by system. It also has in app purchase options to see more detail, which you may find helpful.

X. ANATOMY COURSE OBJECTIVES: This course explores anatomical structures of the human body in detail. At the end of the course, students should have an extensive knowledge of the course material and be able to identify relationships between anatomical structure and function in health and disease.

XI. SPECIFIC OBJECTIVES OF THIS COURSE: Through knowledge gained in lecture, reading assignments, and interactive discussion of histologic slides, the student will be able to:

1. Define and apply anatomical terms and directions in the correct manner
2. Describe the bony structure of the axial skeleton (i.e. the cranium, cranial base and vertebrae)
3. Describe the bony structures of the appendicular skeleton
4. Understand the structure and function of the various joints of the body
5. Describe and understand the musculature of the human body, including their origins and insertions
6. Describe and understand the vascular supply of the body
7. Describe and understand the nervous system of the body, including how nerves work
8. Describe and understand the lymphatic structures of the body
9. Describe and understand the anatomy of the human heart
10. Describe and understand the anatomical structures of the respiratory system
11. Describe and understand the anatomical structures of the digestive system
12. Describe and understand the anatomical structures of the urinary system
13. Describe and understand the anatomical structures of the reproductive system
14. Describe and understand the anatomical structures of the integumentary system
15. Identify the four major types of tissues found in the human body by using a microscope or a computer presentation
16. Understand some preliminary physiology associated with each of the major organ systems covered in this course
17. Demonstrate reasonable proficiency when asked to dissect certain structures found in the cat

XI. WLAC Student Learning Outcomes: West LA College as an institution is committed to an environment of learning and respect for its students. Its mission is to serve the community by providing quality instructional services through its programs and facilities. The college has created a series of Student Learning Outcomes (SLOs) that are designed to maximize the successes and experiences of the students here at WLAC.

A. Critical Thinking: Analyze problems by differentiating facts from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences.

B. Communication: Effectively communicate thought in a clear, well-organized manner to persuade, inform, and convey ideas in academic, work, family, and community settings.

C. Quantitative Reasoning: identify, analyze, and solve problems that are quantitative in nature.

F. Technological Competence: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

XII: BIOLOGY PROGRAM SLOs (Health Sciences Option): In addition, the Biology program with an emphasis on the Health Sciences also has several unique SLOs.

A student who completes this program will be able to:

1. Use appropriate biological terminology to communicate with purpose and clarity, to consult others, and to question others empathically for the purpose of making informed decisions regarding the health status of a patient or a family member.
2. Recommend strategies to family members and/or patients that will help the human body recover from injury and/or defend itself against disease-causing microbes.
3. Recommend strategies to family members and/or patients that will protect the human body from the invasion of disease-causing microbes.
4. Explain how living things are organized, reproduce, acquire matter & energy, and inherit & express genetic instructions.

XIII: ANATOMY SLOs: The following are the approved SLOs for Anatomy 001

1. Identify the names and processes of the human skeleton using skulls and disarticulated bones
2. Describe the relationships between cells, tissues, organs, and organ systems from a structural and functional perspective.

XIV. ATTENDANCE:

Attendance: I will not take attendance at every lecture/lab. I will be taking attendance for the first few weeks to assess the number of drops, but there are no actual points given for attendance. That being said, to be successful in this class (particularly this accelerated version), you will need to come to class for lecture and lab to give yourself the most opportunity to get the information you need. Information from the lectures will be on the written exams and lab will give you an opportunity to work hands on with the models that will be used for the practical exams. You should make a point of not missing any classes unless absolutely necessary for this shortened term.

Drop dates: All enrollment procedures are now done on-line. **YOU** are responsible for your enrollment status in this course and in all others!!! So be aware of drop dates. I will NOT drop you from the course until you confirm your decision with me. Therefore – if you choose to leave the class and do not drop – you will receive a failing grade at the end of the semester. Let me reiterate - You are responsible for obtaining your withdrawals by asking me to drop you from the course. If not, you **will** receive a failing grade. Therefore, be responsible. Please do NOT assume I will take responsibility for maintaining your enrollment status because I will not.

XV. METHODS OF EVALUATION: Your course will consist of three practical exams and three written exams. These written exams will be a combination of multiple-choice, true/false, short answer questions and will cover the anatomical concepts **covered in lecture**. These exams are given on the same day as the practical examinations. Since anatomy is about learning structures, you will also have three identification practical exams. These three practical exams will be done during class time and **will involve the lab portion of this course** – i.e. identification of anatomical structures on human models. **Be warned, these practical exams are TIMED exams.**

Course Break-down:

Lecture exam:	3 exams @ 25 points each	75 points
Practical exams:	3 exams @ 50 points each	150 points
TOTAL		225 points

Course letter grades will be based on the following scale.

- 90 – 100% = A
- 80 – 89% = B
- 70 – 79% = C
- 60 – 69% = D

XVI: COURSE MATERIALS:

Materials Needed:

1. Course Textbook
2. Lecture notes and handouts
3. Scantrons for written exams. These may be purchased in packets from the bookstore.
4. Number 2 pencils for the scantrons

XVII: CONTACT INFORMATION:

Email: The best way to contact me is via email: AbrahaLM@wlaac.edu or Lmabraha2017@gmail.com . Be sure to put “Anatomy 001” followed by the subject of the email in the subject line. I try to be very active with my email and will try to respond within 12 hours (most likely sooner). However, please do not flood my inbox with your emails if I don’t respond immediately. If you haven’t heard back from me in 24 hours, then feel free to send me another email.

Phone: I do not have a West Los Angeles College phone number and will not give out my personal number, so I am not available by phone. Please contact me via email.

Office hours: Office hours will be held in the Group Science Room (MSB 211), from:

1. 12:30 PM to 1:00 PM Monday through Thursday
2. Or by appointment
3. Virtual office hours available via email through the school day

Open Lab: I will hold open lab on Fridays from 10:00 am – 1:00 pm in our classroom MSA 212. This is an opportunity for you to come in and study with the models you will be tested on. I suggest you take advantage of this time considering your exam schedule. Coming in and studying with the models is, bar none, the best way to prepare for your practical exam. I am more than willing to come in and open the class for these hours for you all, however, if students aren't showing up I will not continue to hold open lab. Take advantage of this opportunity!

XVIII: Keys to Success in Anatomy:

Here are some tips for you all to be successful in this class:

- COME TO OPEN LAB!!!! It may sound like I am a broken record, but this is the best thing you can do to study for this class. Unless you're willing to spend thousands of dollars on models for yourself at home, open lab and the library are the only place where you can study on the models. I recommend marking up the models with stickers/post-its/etc and taking pictures for yourself so you can study from them at home.
- Study in groups – I realize that this may not be for everyone as you all have your own schedules with work, family, other classes etc. However, if you're able to, partner up with someone (or a few people) from class and study together. You can teach each other different things, quiz each other, etc.
- Time – There is no way around this bit of truth: This class requires a significant amount of your time and attention. Particularly because its being taught in 6 weeks rather than a full length semester. Be sure you have the time and energy to devote to this class.

ANATOMY 001: Human Anatomy

Leelai Abraha, M.Sc.

Summer 2017

Schedule of Topics

<u>Week</u>	<u>Date</u>	<u>Topic</u>
1	JUN 12 JUN 13 JUN 14 JUN 15	Introduction to Anatomy & Skeletal System: Bone Tissue & Skull Skeletal System: Axial Skeleton Skeletal System: Appendicular Skeleton Skeletal System: Joints
2	JUN 19 JUN 20 JUN 21 JUN 22	REVIEW FOR 1ST PRACTICAL 8:45 AM to 11:00 AM - PRACTICAL #1 (Tissues & Bones) 11:00 AM to 12:20 PM WRITTEN EXAM #1 (Tissues & Bones) Skeletal System: Muscle Tissue & Muscles Skeletal System: Muscles cont...
3	JUN 26 JUN 27 JUN 28 JUN 29	Nervous System: Nervous Tissue Nervous System: CNS (the brain and spinal cord) Nervous System: PNS (peripheral nerves) Nervous System: Special Senses
4	JUL 3 JUL 4 JUL 5 JUL 6	Nervous System: Special Senses cont.... No Class 4th of July Holiday REVIEW FOR 2ND PRACTICAL 8:45 AM to 11:00 AM - PRACTICAL #2 (Muscles & Nervous) 11:00 AM to 12:20 PM WRITTEN EXAM #2 (Muscles/Nervous)
5	JUL 10 JUL 11 JUL 12 JUL 13	Cardiovascular System: The Heart Cardiovascular System: Blood Vessels Respiratory System Digestive System
6	JUL 17 JUL 18 JUL 19 JUL 20	Urinary System Reproductive System REVIEW FOR 3rd PRACTICAL (Cardio → Reproductive) 8:45 AM to 11:00 AM FINAL PRACTICAL 11:00 AM to 12:20 PM FINAL WRITTEN EXAM (cumulative)

This is a TENTATIVE schedule of topics. Topics may be changed to accommodate time needed.