

Basic Course Information

Semester:	Spring 2024	Instructor Name:	Lennie Bashiri
Course Title & #:	Human Anatomy / Bio 204	Email:	
CRN #:	10022/10023	Webpage (optional):	N/A
Classroom:	Building 2700/ Room 2736	Office #:	2779
Class Dates:	02/12/2024 – 06/07/2024	Office Hours:	12:56. P.m – 2:00. P.m
Class Days:	T-TR	Office Phone #:	760- 355 - 6148
Class Times:	08:30– 09:30– 9:40-12:45 pm	Emergency Contact:	Department Secretary: 760 355 6155
Units:	4	Class Format:	Face-to-Face/On Ground

Course Description

Lecture and laboratory course designed to introduce the fundamental principles of the human body structure from cellular through organ system levels of organization, including organ dissection, study of the human skeleton, structural-functional relationships, and appreciation of related human diseases and aging. This course may require the use of human cadavers for observation and/or dissection. (C-ID BIOL 110 B) (CSU) (UC credit limited. See a counselor.) (CSU/UC)

Course Prerequisite(s) and/or Corequisite(s)

BIOL 100 or BIOL 122 or BIOL 124 or BIOL 180 or BIOL 182 with a grade of "C" or better; or appropriate placement as defined by AB705, or MATH 098 or MATH 091 with a grade of "C" or better, and current California LVN/RN license.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and/or attitudes as demonstrated by being able to:

1. Display critical thought and competency in communicating information related to topics in human anatomy. (ILO1, ILO2, ILO4)
2. Display knowledge of anatomy and dissection competency using mammal and/or human cadaver specimen as subjects. (ILO1, ILO4)

Course Objectives

1. Characterize the levels of structural organization in the human body and to describe regional names, directional terms, planes and sections, body cavities and abdominal regions and quadrants.
2. Define a cell and explain the structure and functions of its principal parts.
3. Identify and discuss the origin, classification, structure, location and functions of four major types of tissues.
4. Describe the structure and function of the various layers of the skin, the epidermal derivatives.
5. Describe the gross features of a long bone and the process of bone formation.
6. Identify all the bones of the skeleton and their important surface markings.
7. Describe the structural and functional classification of the joints; describe the important characteristics of selected joints.
8. Describe the connective tissue components, the motor unit, the neuromuscular junction, and the microscopic anatomy of muscle tissue.
9. Describe how the skeletal muscles provide specific movements of the body, and identify the principal skeletal muscles of the body.
10. Describe the major surface features of the head, neck, trunk, and upper and lower extremities.
11. Describe characteristics of the blood plasma and the formed elements of the blood.
12. Describe the general flow of blood through the systemic and pulmonary circulation, the structural and functional features of the heart.
13. Contrast the structure and functions of blood vessels and identify the major vessels in the body.
14. Trace lymphatic circulation; describe the structure and functions of lymphatic tissues and organs.
15. Describe the organization of the nervous system and contrast histological characteristics and functions of neurons and neuroglia.
16. Describe the anatomy of the spinal cord, the reflexes, and the origin, composition, and branches of spinal nerves and nerve plexuses; Identify the principal parts of the brain and cranial nerves; explain the formation and circulation of cerebrospinal fluid.
17. Describe the components of sensations, major characteristics of sensory receptors, the sensory pathways, integration of sensory input and motor input, and the motor pathways.
18. Identify the structures of the eyes and the ears, and describe the neural pathways for olfaction, taste, vision, hearing, and equilibrium.
19. Compare the structures and functions of the somatic and autonomic nervous systems.
20. Describe the location, histology, and functions of the major endocrine glands of the body.
21. Identify the structures of the respiratory system and the mechanics of pulmonary ventilation.
22. Identify and describe the structure and functions of the digestive organs and accessory organs.
23. Identify the features of the kidneys; describe the blood supply to the kidney, and describe the location, structure and functions of ureters, urinary bladder, and urethra.
24. Identify and describe the structure, histology, and functions of the male and female reproductive systems, and explain the principal events of gametogenesis; describe the major events that occur during pregnancy.
25. Demonstrate dissection skills using animals and/or a human cadaver.

Textbooks & Other Resources or Links

Course Requirements and Instructional Methods

Method of teaching:

Use PowerPoint as an effective way to enhance instruction and learning process in the classroom.

Exams:

Except for the final exam, there will be five (5) exams. A total of **50%** will be earned, with **10%** going toward each exam. There will be true-or-false, multiple-choice, and brief essay questions in the exam format. All tests will come with study guides. To do well on the tests, you must provide thorough answers to the questions in your study guides. **No make-up test will be provided.**

Laboratory: Except for the final exam, there will be five (4) exams . A total of 28% will be earned.

Final Exam

The final exam will be cumulative including 100 questions and worth **10%**.

Weekly assignments.

including questions sets, case studies, critical thinking, Quizzes count for **12%**

Course Grading

Five equally weighted exams	5X 10%	50%
Four equally weighted exam	4 X 7%	28%
Weekly assignments, case studies, critical thinking, etc...	1X 10	12%
Final Exam (Cumulative)	1X 10%	10%

Total **100%**

A: 90 – 100 %

B: 80 – 89.9 %

C: 70 – 79.9 %

D: 60 – 69.9 %

Optional exam: MAY BE?

The optional exam **may** be provided to replace the lowest grade you received in any of the four exams (excluding the final exam). This exam is not mandatory, but you can take it if you have a low grade in any of the four exams.

- Instructions and announcements will be posted on Canvas on a weekly basis, and it is your responsibility to periodically check your email and announcements on Canvas. **No excuses will be accepted for missing announcements.**

Important Note:

- All exams and assignments will have due dates. **It is your responsibility** to read the instructions carefully and check the due dates to make sure you submit the assignments on time and before they are due. Missed weekly assignments/exams will get a zero.

- If you have a valid reason for missing a due date, **It is your responsibility** to let your instructor know about it as soon as possible, otherwise you will get a zero for the missing assignment.
- It is your responsibility to frequently check and read the new announcements thoroughly on Canvas.

Academic Honesty (Artificial Intelligence -AI)

Academic honesty in the advancement of knowledge requires that all students and instructors **respect the integrity of one another's work and recognize the importance of acknowledging and safeguarding intellectual property**. There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to cite a source correctly, you must ask for help.

Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Dean of Student Affairs, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action.

Acts of cheating include, but are not limited to, the following:

- Plagiarism
- Copying or attempting to copy from others during an examination or on an assignment.
- Communicating test information with another person during an examination
- allowing others to do an assignment or a portion of an assignment.

using a commercial term paper service.

Please refer to the [General Catalog Links to an external site.](#) for more information on academic dishonesty or other misconduct.

Course Policies

Attendance:

Active participation throughout the semester is critical to your success and is required for IVC to use federal aid funds.

A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student

who desires to add a class. **It is the student's responsibility to drop or officially withdraw from the class.**

- **Regular attendance** in all classes is expected of all students. **A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped.** For online courses, students who fail to complete required activities for **two consecutive weeks** may be considered to have excessive absences and may be dropped.
- **Absences attributed** to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as **'excused' absences**.

Other Course Information

Classroom Policies

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor.
While the instructor is presenting the lab or lecture, no pictures should be taken from the board.
- **Food and Drink:** Food and drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Dean of Student Affairs before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- **Children in the classroom:** Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

*****Subject to change without prior notice*****

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).



Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Some Important Dates to Remember: (please check Imperial Valley College Important Dates & Deadlines)

- February 16, 2024: Holiday- Lincoln’s Birthday. No classes.
- February 19, 2024: Holiday- Washington’s Birthday. No classes.
- February 25, 2024 (Sunday): Last day to drop WITHOUT “W”
- April 1-7, 2024: Spring Recess. No classes.
- May 11, 2024 (Saturday): Last day to drop WITH “W”
- May 27, 2024: Holiday – Memorial Day. No classes.

Anticipated Class Schedule/Calendar

LECTURE			LABORATORY	
Week	Lecture Date	Lecture Topic	Lab Date	Laboratory Topic
1	2/13	M: Syllabus, Introduction	2/12	M: Lab Intro and Safety. lab safety form: Science Safety Policy form
	2/15	W: The Study of Anatomy (Ch. 1)	2/14	W: The Language of Anatomy (1)
2	2/17	M: HOLIDAY, no class	2/19	M: HOLIDAY, no class
	2/19	W: The Cellular Level of Organization (Ch. 3)	2/21	W: The Cell (17)
3	2/2	M: The Tissue Level of Organization (Ch. 4)	2/26	M: Classification of Tissues (31) Tissue types & function, Microscope slides
	2/28	W: The Integumentary System (Ch. 5)	2/28	W: The Integumentary system (57)
4	3/4	M: <u>EXAM 1: (Ch. 1.3.4&5 + Lab)</u>	3/4	M: <u>EXAM 1: (Ch. 1.3.4&5 + Lab)</u>
	3/6	W: The Skeletal System (Ch. 6 – 9)	3/6	W: Overview of skeleton: structure of bone/cartilage (71)
5	3/11	M: The Skeletal System (Ch. 6 – 9)	3/11	M: The Axial Skeleton (83)



	3/13	W: The Skeletal System (Ch. 6 – 9)	3/13	W: The Appendicular Skeleton (111)
6	3/18	M: <u>EXAM 2: (Ch. 6-9 + Lab practical)</u>	3/18	M: <u>EXAM 2: (Ch. 6-9 + Lab practical)</u>
	3/20	W: The Muscular System (Ch, 10 – 11)	3/20	W: Muscular system- Axial. Use of models; Gross anatomy of Muscular System (133, 2 day lab)
7	3/25	M: The Muscular System (Ch, 10 – 11)	3/25	M: Muscular system – appendicular (133 cont'd)
	3/27	W: The Nervous System (Ch. 12 – 16)	3/27	W: Gross Anatomy of the Brain & Cranial Nerves (171, 2-day lab)
Spring Break, no class				
8	4/8	M: <u>EXAM 3: (Ch. 10-12 + Lab practical)</u>	4/8	M: <u>EXAM 3: (Ch. 10-12 + Lab practical)</u>
	4/10	W: The Nervous System (Ch. 12 – 16)	4/10	W: Gross Anatomy of the Brain & Cranial Nerves (171, 2-day lab) - Dissection
9	4/15	M: The Nervous System (Ch. 12 – 16)	4/15	M: Special Senses – The eye (197)- Dissection , The ear & equilibrium, (209)
	4/17	W: The Endocrine System (Ch. 17)	4/17	W: Lecture cont'd, Endocrine Handout & Blood Lab (227)
10	4/22	M: <u>EXAM 4: (13-17 + Lab practical)</u>	4/22	M: <u>EXAM 4: (13-17 + Lab practical)</u>
	4/24	W: The Cardiovascular System (Ch. 18 – 20)	4/24	W: Anatomy of the heart (247)- Dissection Presentation Topic Approval Deadline
11	4/29	M: The Cardiovascular System (Ch. 18 – 20)	4/29	M: Blood Vessels (279)
	5/1	W: The Respiratory System (Ch. 22)	5/1	W: Anatomy of Respiratory System (285)
12	5/6	M: <u>Exam 5: (18-21, & 23 + Lab practical)</u>	5/6	M: <u>Exam 5: (18-21, & 23 + Lab practical)</u>
	5/8		5/8	



IMPERIAL VALLEY COLLEGE

		W: The Lymphatic and Immune System (Ch. 21)		W: Study Session, Presentation Prep , No lab
13	5/13 5/15	M: The Digestive System (Ch. 23) W: The Urinary System (Ch. 25)	5/13 5/15	M: Anatomy of the Digestive System (297) W: Urinary System – models, handout
14	5/20 5/22	M: <u>Exam 6: (22 & 24-26 + Lab practical)</u> W: The Reproductive System (Ch. 27)	5/20 5/22	M: <u>Exam 6: (22 & 24-26 + Lab practical)</u> W: Anatomy of the Reproductive System (319), models
15	5/27 5/29	M: <i>HOLIDAY, no class</i> W: Presentations	5/27 5/29	M: <i>HOLIDAY, no class</i> W: Presentations, Open Lab, Models,
16	6/3 6/5	M: In-class activities, Review, Study Guide W: FINAL EXAM (CUMULATIVE)	6/3 6/5	M: Open Lab, Models W: FINAL EXAM (CUMULATIVE)

Changes and revision can be made without prior notice; students will be informed of changes