



LINCOLN UNIVERSITY

DI 30 – Anatomy and Physiology

Course Syllabus

Spring 2024

Instructor: Dr. Khatia Mania
Lecture Schedule: Tuesday 3:30 – 6:15 pm
Credits: 3 units (45 hours of lectures)
Pre-requisites: SCI 31 or equivalent
Level: Introductory (I)
Office Hours: By appointment
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TEXTBOOKS:

1. **Principles of Anatomy and Physiology** by Gerard J. Tortora, Bryan H. Derrickson
14th edition (2013), ISBN-10: **1118774566**; ISBN-13: **978-1118774564**
13th edition (2011), ISBN-10: **0470565101**; ISBN-13: **978-0470565100**
2. **Anatomy and Physiology** by I. Edward Alcamo
(2010) ISBN-10: **0764144685**; ISBN-13: **978-0764144684**

Supplemental textbooks:

1. **Physiology** by Robert M. Berne, Matthew N. Levy,
6th edition (2009), ISBN-10: **032307362X**; ISBN-13: **978-0323073622**
5th edition (2003), ISBN-10: **0323022251**; ISBN-13: **978-0323022255**
2. **The Human Body in Health and Disease**
By Barbara Janson Cohen
13th edition (2014), ISBN-10: **1451192800**; ISBN-13: **978-1451192803**
12th edition (2012), ISBN-10: **1609139054**; ISBN-13: **978-1609139056**
3. **The Human Body in Health & Disease**
By Gary A. Thibodeau, Kevin T. Patton
6th edition (2013), ISBN-10: **0323101240**; ISBN-13: **978-0323101240**
5th edition (2009), ISBN-10: **0323054927**; ISBN-13: **978-0323054928**

Last Revision: December, 2023

NOTE: Instructor may change this syllabus and course schedule at any time according to the judgment as to what is best for the class. Any changes will be declared ahead of time in class.

CATALOG DESCRIPTION

This course provides a basic study of the structure and function of the human body. Upon completion, students should be able to demonstrate basic understanding of the fundamental principles of anatomy and physiology. (3 units) *Prerequisite: SCI 31 or equivalent.*

COURSE OBJECTIVES

Upon completion, students should be able to:

- Demonstrate basic understanding of the fundamental principles of anatomy and physiology;
- Explain the basic concepts of homeostasis and demonstrate the key concept as the most important unifying theme of the body systems;
- Describe basic chemical and physical principles that are of particular importance in anatomy and physiology;
- Demonstrate knowledge of functioning of each organ separately.

COURSE LEARNING OUTCOMES¹

	Course Learning Outcome	Program Learning Outcomes	Institutional Learning Outcomes	Assessment activities
1	Use anatomical terminology to identify and describe locations of major organs of each system covered.	PLO 4	ILO 2a	In-class activities, quizzes, midterm and final exams.
2	Describe the interdependency and interactions of the systems.	PLO 1	ILO 1a	In-class activities.
3	Apply appropriate safety and ethical standards	PLO 3	ILO 1a, ILO 4a	In-class activities, quizzes, midterm and final exams
4	Students should be able to demonstrate an understanding of the organ systems and the mechanisms by which they function.	PLO 1	ILO 1a, ILO 2a, ILO 3a	In-class activities, quizzes, midterm and final exams

¹ Detailed description of learning outcomes and information about the assessment procedure are available at the [Learning Outcomes Assessment](#) section of LU website.

INSTRUCTIONAL METHODS

Instructional methods will include lectures, classroom activities and presentations.

Assignments and projects require students to actively use resources of the library. Detailed guide to business *resources of the library* as well as the description of Lincoln University approach to *information literacy* are available at the [LU Library](http://lincolnuca.libguides.com) website (lincolnuca.libguides.com).

HOMEWORK

The goal of the homework is to help students achieve the course learning objectives. Homework consists of two parts.

First part is to read the textbooks and materials to review and analyze the lecture given during a previous class session. Students are expected to spend six hours for each class session outside of class in completing the reading assignments related to each lecture. These assignments are graded through short quizzes given at the beginning of the following class session.

Second part of the homework consists of a project presented at the end of the course. Each student will choose the topic for presentation or will be assigned one by the instructor. The presentation should be approximately 10 minutes long and with 5 minutes for a discussion. The topic and format for the presentation will be discussed in class for more details. A final draft of the presentation must be submitted for review one week prior to the presentation.

Evaluation Criteria for Project:

- Clinical statement: 2%
- Background information: 2%
- Slide content: 2%
- Slide design: 1%
- Resolution of the problem: 2%
- Oral presentation in class: 1%

Total: 10% of all the course grading elements

Quizzes:

Students will take 10 quizzes; 10-15 questions each. These quizzes will address the detailed content and major concepts presented in the lectures, lecture outlines and text readings to evaluate students' work outside of the classroom. If a student takes more than ten quizzes, only the best ten quiz scores will be used in calculating the student's total points. Each quiz will be timed; 1 minute for every question to complete. No make-up quizzes for missed quizzes will be administered (students will receive no score for missed quizzes) unless student provides legal documents excusing from the class. The document should be presented and make up test done within a week after missed date.

EVALUATION

1. Quizzes — Reading assignments will be given as described above. Quizzes will be given at the beginning of class sessions.
2. Project — Each student needs to present a completed project a week before the final examination.

3. Class attendance and class activity.
4. Midterm examination.
5. Final examination.

GRADING

All activities will be graded according to the points as shown below.

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Points	93-100	90-92	87-89	84-86	81-83	78-80	76-77	74-75	72-73	70-71	0-69

The final grade for the course will be given as the total weighted score for all activities according to the percentage shown in the table below.

Activity	Percent
Class Attendance	10%
Class Activity	10%
Quizzes	20%
Midterm Exam	20%
Project	10%
Final Exam	30%
Total	100%

COURSE GUIDELINES

To successfully complete this course, the students must pass the quizzes, homework and final exam portions with a 70% or better. Students should attend all the class meetings. However, considering possible urgent situations, students may be absent from maximum four class meetings with prior notice to the instructor. Three late arrivals would affect the grade. Student will be dismissed from the class after missing 3 consecutive classes by reporting to Registrar.

The term grade is based on attendance, class activity, project, midterm and sum of quizzes, and final examination. Individual projects will be assigned at the beginning of the semester. Project is due by the last meeting before the final examination. No project will be accepted after the due date.

If students have missed the class without a valid reason, no make-up for quizzes and presentations will be allowed. Students can retake only one unsatisfactory quiz. No retake for missed or failed midterm examination. **Final examination, if failed, can be retaken only once. If failed second time, the subject is considered failed. If total performance of the class is below 70% the class is considered failed even if the student gets the highest score on one of the parts of the grading system.** Dictionaries are allowed during the class time. **No electronic devices during the test time.**

During the written exam, any student observed in a situation that could be considered suspicious (e.g., an open book within his/her field of vision, looking around or checking a cell phone or other wireless device, etc.) but no cheating is observed, will be warned. Once warned, any applicant found cheating on written exam will be failed for the exam and prohibited from retaking the written exam without permission from the dean.

Students cannot leave the room during the test/exam. As soon as student leaves, his/her exam is considered finished.

Lecture is not a substitute for textbooks. Students should read the textbooks and use other sources to be prepared for tests. Lecture is to guide the students to prepare for the course subjects.

SCHEDULE OF TOPICS

- 01/23/2024 – Anatomic and Physiologic Relationships within the Abdominal Cavity. The Skeletal System; Muscular System; Respiratory System
- 01/30/2024 – The Vascular System (abdominal vessels, vessels of the head and neck area). Quiz #1
- 02/06/2024 – The Vascular System (upper and lower extremity vessels). Quiz # 2
- 02/13/2024 – The Digestive System (GI tract, liver & pancreas). Quiz # 3
- 02/20/2024 – The Digestive System (gallbladder & biliary system). Quiz # 4
- 02/27/2024 – The Urinary System. The Spleen. Quiz # 5
- 03/05/2024 – Retroperitoneum, peritoneal cavity & abdominal wall. Quiz # 6
- 03/19/2024 – **Midterm Examination**
- 03/26/2024 – Anatomy of small parts (breast, thyroid, parathyroid).
- 04/02/2024 – Thoracic cavity – heart (Embryology + Anatomy). Quiz # 7
- 04/09/2024 – Thoracic cavity – heart (Physiology, conduction system of the heart). Quiz # 8
- 04/16/2024 – Female Reproductive System.
- 04/23/2024 – Male Reproductive System Quiz #9
- 04/30/2024 – Review and **Final Examination**
- 05/07/2024 - **Presentations of Projects**

DUE DATE

Due date for the project is 05/07/2024