



LINCOLN UNIVERSITY

DI 30 – Anatomy and Physiology

Summer 2015 Course Syllabus

COURSE NUMBER: DI 30

COURSE TITLE: Anatomy and Physiology

COURSE CREDITS: 3 units (45 lecture hours)

BASIC INFORMATION:

Class Meeting Hours: Tuesday & Thursday 3:30 – 6:15 pm

Room number: TBA

Professor's name: Dr. Khatia Mania

Office Hours: by appointment

Contact Telephone: (510) 238-9744

E-mail: mania@lincolnuca.edu

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**

COURSE 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.

INSTRUCTIONAL METHODS:

Instructional methods will include lectures, classroom activities and presentations.

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).

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 Scale:

94-100	A
90-93	A-
87-89	B+
84-86	B
81-83	B-
78-80	C+
76-77	C
74-75	C-
72-73	D+
70-71	D
69≤	F

Class Attendance	10%
Class Activity	10%
Quizzes	20%
Midterm Exam	20%
Project	10%
Final Exam	30%
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	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.

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.** 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 a student leaves, his/her exam is considered finished.

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

SCHEDULE OF TOPICS:

- 06/09/2015 – Anatomic and Physiologic Relationships within the Abdominal Cavity. The Skeletal System; Muscular System; Respiratory System
 - 06/11/2015 – The Vascular System (abdominal vessels, vessels of the head and neck area). Quiz #1
 - 06/16/2015 – The Vascular System (upper and lower extremity vessels). Quiz # 2
 - 06/18/2015 – The Digestive System (GI tract, liver & pancreas). Quiz # 3
 - 06/23/2015 – The Digestive System (gallbladder & biliary system). Quiz # 4
 - 06/25/2015 – The Urinary System. The Spleen. Quiz # 5
 - 06/30/2015 – Retroperitoneum, peritoneal cavity & abdominal wall. Anatomy of small parts (breast, thyroid, parathyroid). Quiz # 6
- Midterm Examination**
- 07/02/2015 – Thoracic cavity – heart (Embryology + Anatomy).
 - 07/07/2015 – Thoracic cavity – heart (Physiology, conduction system of the heart). Quiz # 7
 - 07/09/2015 – The Nervous & Endocrine System. Quiz # 8
 - 07/14/2015 – Female Reproductive System. Quiz # 9
 - 07/16/2015 – Male Reproductive System. Quiz # 10
 - 07/21/2015 – **Presentations of Projects**
 - 07/23/2015 – Review and **Final Examination**

DUE DATE:

Due date for the project is 07/21/2015.

Syllabus was updated on June 23, 2015.

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.