



# Anatomy II

## ANAT 302

### Course Description

This course provides the students with lectures and comprehensive overview of the gross anatomy of the components of the respiratory, cardiovascular, digestive and the urogenital systems as well as the organs of vision, hearing and balance.

Credit: 3 semester credits

Repeatable: No

**Competencies:** At the end of Anatomy I and II, the student will have had the opportunity to practice the following competencies through meeting the objectives of the course:

#### Medical Knowledge

- MK1 Demonstrate knowledge of normal and abnormal structure and function of the human body on the macroscopic, microscopic and molecular levels.
- MK2 Identify the pathology and pathophysiology of various diseases and correlate them with clinical signs and symptoms.
- MK3 Demonstrate knowledge of common or significant, acute and chronic clinical problems.
- MK4 Differentiate between normal and abnormal development and age-related changes across the life span.
- MK5 Demonstrate comprehension of clinical interventions and agents including pharmaceutical, surgical, genetic, complementary and alternative medicines, and other therapies.
- MK6 Demonstrate knowledge and ability to interpret epidemiological and public health contributions to understanding health and disease.
- MK7 Demonstrate knowledge of preventive medicine and current guidelines for health promotion and disease screening.

#### Systems-Based Learning

- SB1 Demonstrate the ability to work within a multidisciplinary patient care team, with an understanding of the physicians' role as team leader and the importance of ancillary staff.
- SB2 Examine medical errors and quality problems using a health systems approach and describe available methods to minimize them.

### Course Structure

The course includes 42 lectures, 6 laboratory sessions, 2 quizzes, a midterm, and an NBME exam.

### **Objectives:**

By the end of the course, students should be able to:

- be familiarized with anatomical principles and correlate structure with function
- understand the scientific basis of anatomy
- explain the features related to each structure (form, location and relationships)
- apply the anatomical knowledge on interpretation of symptoms and signs of common diseases
- apply basic knowledge of anatomical structures to interpret normal medical imaging studies
- communicate information about body structure using language appropriate to professional colleagues and to the lay person
- recognize common abnormalities
- practice dissection and acquire manual skills which are required for simple clinical procedures, and for the routine examination of patients
- identify all the major structures of the human body on dissected bodies, pictures and medical imaging studies
- Pursue independent, self-directed and critical learning.

**Schedule:** To be posted at the beginning of the term on the online calendar.

**Assignments:** online Kaplan lectures.

### **Textbooks and Reference Materials:**

**Textbook:** Essential Clinical Anatomy (Book with Access Code to Website)  
Keith L. Moore, Anne M. R. Agur, Arthur F. Dalley, Lippincott Williams & Wilkins.  
ISBN-13: 9780781799157

#### **Complementary readings:**

Grant's Dissector  
Patrick W. Tank, 15<sup>th</sup> North American Edition, March 30, 2012, Lippincott  
Williams & Wilkins. ISBN- 10: 1609136063, ISBN-13: 978-1609136062

Atlas of Human Anatomy, Professional Edition  
Frank H. Netter, Fifth Edition, May 17, 2010, Saunders. ISBN-10: 1437709702,  
ISBN-13: 978-1437709704

Clinically Oriented Anatomy  
Keith L. Moore, Anne M. R. Agur, Arthur F. Dalley, Seventh, North American  
Edition, February 13, 2013, Lippincott Williams & Wilkins. ISBN-10: 1451119453,  
ISBN-13: 978-1451119459

**Evaluation:** Two quizzes, a midterm exam, and an NBME exam will be taken throughout the term.

Quizzes 1 and 2 will be conducted before the midterm exam, respectively. Quiz 2 will be conducted before the NBME exam.

The two unified exams will be taken on Friday in week # 5, and # 10. Each exam will include the entire topics covered in each block.

The NBME exam will be taken during the final week of the term according with the schedule and will cover the entire course.

Quizzes and exams will be on USMLE (multiple choice) format and will include pictures, X-rays, CT scan and MRI. According to USMLE procedures, the times allocated for completing an exam will be approximately one minute per number of exam questions. Exams will be revised in full after examination.

The value of each question is the same for both the quizzes and exams

The final grade will be expressed as the percentage of the right answers to the questions in all the quizzes and exams.

NBME exam score will constitute 20% of the final score.

**Grade:**

Percent of Points	Letter Grade
95-100%	A+
90-94%	A
85-89%	B+
80-84%	B
75-79%	C+
70-74%	C
<70%	F

**Attendance:** in accordance with the Student Handbook.

**Policies:** The Course Syllabus may be modified at the discretion of the Course director to accommodate the changes that normally take place throughout the semester. Students will be notified each time a change to the Course Syllabus is required. Some topics might be assigned as independent study. Students will be notified when a topic is assigned as independent study

**Faculty:**

Dr. Lina Diaz MD, PhD, Professor of Gross Anatomy and Histology

Dr. Iuliia Zhuravlova MD, PhD, Associate professor of Gross Anatomy, Embryology and Early Human Development.