



Histology II

ANAT 307

Course Description

This course provides students an understanding the organization of the microscopic and ultramicroscopic structure of normal human tissues and organs and to relate this to functional processes studied in concurrent and subsequent courses as well as to apply the knowledge to tissue structure and function to understand structural changes that underlie disease processes.

Credit: 1.5 semester credits

Competencies: At the end of Histology 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.

Professionalism

- PR1 Demonstrate honesty, integrity, and ethical behavior in all interactions with patients and other health care professionals, including:

Objectives

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

- explain the microscopic organization and relationship of cells, tissues, and organs of the human body
- describe the microscopic anatomy of tissues and organs of the human body
- explain the relationship between microscopic structure and function
- use specific histological terms and concepts for the purposes of identification and precise communication to professional colleagues and to the lay person
- apply the histological principles to better understand the concepts of physiology, pharmacology and pathology
- develop a systematic approach to the correct identification of histological preparations using photomicrographs, microscopic slides, digital images
- pursue independent, self-directed and critical learning

Evaluation

Two quizzes, one midterm exam, and a final exam will be given during the term. Quiz 1 will occur before the midterm exam and quiz 2 will occur before the final exam. The midterm exam will be scheduled in week 7 and will include all topics covered through the previous week. The final exam will be scheduled according to the exam schedule. Quizzes and exams will use the NBME (multiple choice) format and may include pictures, photomicrographs, microscopic slides, and digital images. According to NBME procedures, the time allocated for completing an exam will be approximately 1.2 minutes (72 seconds) per exam question. Quizzes and exams will be revised completely after an examination.

Grading Criteria

The Quizzes represent 20% of the final grade, the midterm and final exams will comprise 40% of the final grade each.

Grade: The grading scale is according to school policy.

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

Textbook: *Junqueira's Basic Histology Text and Atlas*, 13th Edition, 2013
 Anthony L. Mescher, PhD, Lange Publisher
 ISBN 10: 978-0-07-180798-2

COMPLEMENTARY READINGS:

Histology: A Text and Atlas, 6th Edition, 2010
 Michael H. Ross and Wojciech Pawlina, Lippincott Williams & Wilkins
 ISBN 978-0-7817-7200-6

ATTENDANCE POLICY: According with the Student Handbook.

OFFICE HOURS: Wednesday at 1:30 PM and by appointment.

Schedule: The lecture schedule will be posted to the online calendar.

Faculty

Dr. Lina L. Díaz Galán MD, PhD – course director