In the name of GOD

Tabriz University of Medical Sciences

Course Guide for Anatomical Sciences – Special Senses

Course Code: 101

Course Instructor: Dr. Hamid Taiefi **Contact Number / Student Access: 33342086**

Prerequisite or Corequisite: Introduction to Anatomical Sciences

Course Credits: 2.5 **Course Type: Theoretical / Practical**

Program Level: Doctor of Medicine (M.D.) **Number of Sessions: 25**

Course Duration: According to the academic calendar

Class Schedule: Saturday and Tuesday and Wednesdays

Classroom Location: School of Medicine classrooms **Virtual Class Link: — (M.D.)**

Other Instructors:

First Name	Last Name	Academic Rank	Department	Preferred Method of Contact
Hamid	Taifi	Professor	Anatomical Sciences	In-person
Laila	Roshangar	Professor	Anatomical Sciences	In-person
Alireza	Ali Hemmati	Professor	Anatomical Sciences	In-person

General Objective of the Course

The student must:

1- Understand the principles and methods of anatomical nomenclature and be able to apply them in visualizing and describing body parts in various positions and movements.
2- Recognize the main general structures of the body, including the skeletal, muscular, vascular, and nervous systems, and be able to determine the position of important organs and body systems in relation to them.
3- Identify the types of cells and general tissues of the body, including epithelial, muscular, and connective tissues (along with their derivatives), and be familiar with the formation and development of the embryo and placenta and the embryological origin of vital organs.

Additionally, the student must:

1- Be aware of and respect the human dignity of the cadaver.
2- Value the educational importance and vital significance of each part of the cadaver.
3- Present their learned knowledge and questions on models before working on the cadaver.
4- Actively participate in group-based teaching and learning processes while working on the cadaver.

Specific Objectives of the Course

It is expected that learners after completing this course will be able to:

1- Be familiar with the fundamentals (history and introduction of pioneers), definitions, and principles of working with the cadaver, and explain the ethical principles governing the medical profession and working with cadavers.
2- Recognize the anatomical position of the body, planes and axes, terminology, and body movements.
3- Explain the general systems of the body, including the skeleton, joints, muscular, and nervous systems.
4- Know normal anatomy and variations of the body.
5- Learn the principles of radiologic and clinical anatomy.
6- Learn the basics of histology and methods of tissue study.
7- Explain cells and cytology.
8- Explain epithelial tissue in detail.
9- Explain connective tissue and adipose tissue in detail.

10- Explain blood and hematopoiesis in detail.
11- Explain bone, cartilage, and joints in detail.
12- Explain muscular tissue in detail.
13- Explain nervous tissue in detail.
14- Explain the basics, definitions, and gametogenesis, including oogenesis and spermatogenesis, in detail.
15- Explain ovulation, fertilization, and zygote formation (week 1) in detail.
16- Explain implantation, formation of embryonic membranes, and maternal-fetal blood connection (week 2) in detail.
17- Explain the formation of the trilaminar embryonic disc, gastrulation, and formation of body axes (week 3) in detail.
18- Explain derivatives of the ectoderm, mesoderm, endoderm, and neural crest (weeks 3–8) in detail.
19- Explain the fetal period (weeks 8–38), placenta, embryonic membranes, and twins in detail.
20- Explain the principles of teratology and congenital anomalies in detail.
21- Explain postnatal growth in detail.

Method of Instruction

1. The theoretical sessions are held in the classroom in the form of lectures according to the schedule announced at the beginning of the course.

2. The practical sessions are conducted through hands-on work with cadavers, anatomical models, and osteology specimens.

Student Evaluation Method

- Written and MCQ Exam: 12 points
- Practical Exam (Cadaver Work): 8 points
- Minimum Passing Grade: 10
- Allowed Absence Hours: 0
- Allowed Excused Absence Hours (with instructor's approval):
  According to the approved educational regulations, the maximum excused absence is:
  - 4/17 of total hours for theoretical courses
  - 2/17 of total hours for practical and laboratory courses
  - 1/17 of total hours for apprenticeship and internship courses

Educational Resources

- Clinical Anatomy by Region. R.S. Snell, 11th Edition, 2024
- Junqueira's basic histology. Anthony L. Mescher. McGraw-Hill Education. 17th edition, 2024
- Langman's medical Embryology. T.W. Sadler. Lippincott Williams & Wilkins. 15th Edition, 2022

Contact Information

Instructor and Course Coordinator: Dr. Hamid Taiefi

Educational Officer: Ms. Nadia Keyvani – 33342086

Full Name and Signature of the Course Instructor	Full Name and Signature of the Department Head	Full Name and Signature of the Office of Development Coordinator