

Course Description (Histology Theory)

Review of Higher Education Institution Performance (Academic Program Review)

Course Description

This course description provides a concise summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether they have made the most of the available learning opportunities. It is essential to link these outcomes with the program description.

1. Educational Institution	Al-Zahrawi University College - Ministry of Higher Education and Scientific Research
2. University Department / Center	Department of Pharmacy
3. Course Name / Code	Histology
4. Programs in which it is included	Bachelor of Science in Pharmacy
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	Second Semester/first stage / 2024 – 2025
7. Total Number of Study Hours	2 hours per week
8. Date of preparing this description	2024 – 2025

9. Course Objectives:

The primary objective of the course is to provide students with a comprehensive understanding of the microscopic structure (histology) and functional organization of major human tissues, organs, and body systems.

Specifically, the course aims to:

- **Understand Systemic Microanatomy:** Examine the detailed histology of key organ systems, including the circulatory, lymphoid, nervous, respiratory, digestive, endocrine, reproductive (male and female), urinary, and integumentary (skin) systems.
- **Correlate Structure and Function:** Relate cellular and tissue structures to their specific physiological roles (e.g., filtration and absorption in the nephron, spermatogenesis in the testes, and follicular development in the ovaries).
- **Identify Tissue Variations:** Differentiate between functional subtypes of tissues and structures, such as thick vs. thin skin, central vs. peripheral nervous tissues, and conducting vs. respiratory portions of the lungs.

1. Learning Outcomes, Teaching and Learning Methods, and Evaluation

A. Knowledge and Understanding

Microscopic Structure: Identify the histology of major organs across all 10 body systems covered in the syllabus.

Histophysiology: Explain how tissue structures support functions like filtration, absorption, gas exchange, and secretion.

Developmental Processes: Describe cellular stages in spermatogenesis, follicular maturation, and ovulation.

Tissue Differentiation: Distinguish between tissue variations, including thick/thin skin and central/peripheral nervous tissue.

B. Subject-Specific Skills

Histological Identification: Recognize and differentiate microscopic tissue structures and cell types across major body systems under a light microscope.

Functional Tissue Correlation: Analyze how specific histological features contribute to organ function (e.g., filtration barriers, secretory pathways, and absorptive surfaces).

Comparative Tissue Analysis: Distinguish between structural variations within the same organ or system (e.g., thick vs. thin skin, conducting vs. respiratory zones, central vs. peripheral nerve tissue).

Stage & Process Mapping: Trace cellular developmental stages in tissue sections, such as spermatogenesis and ovarian follicle maturation.

Teaching and Learning Methods

- Discussion and thinking style.
- Scientific tests used in laboratories.
- Learning through exploratory lectures

C. Evaluation Methods

- Submission of weekly reports.
- Examination grades.
- Discussion sessions and presentations.

D. Thinking Skills

- 1: Dialogue style between the student and the professor.
- 2: Preparation of weekly reports.
- 3: Conducting discussions of results.
- 4: Exploratory thinking.

Teaching and Learning Methods

Grades.
Discussion and dialogue.
Examinations.

Evaluation Methods

1. Grades, research, and reports
2. Exams

E. General and Transferable Skills

- 1: The ability to apply acquired knowledge.
- 2: The ability to master teaching and learning skills.
- 3: The ability to reflect gained knowledge into professional development.

11. Course Structure					
Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	2	Knowledge	* Structure of the vascular system (Heart wall, Arteries, Veins & Capillaries)	Blackboard and Projector Usage	Daily Exam and Oral Questions
2	2	Knowledge	* Structure of the lymphatic system (Lymphatic capillary)	Blackboard and Projector Usage	Daily Exam and Oral Questions
3	2	Knowledge	* Structure & function of the (Thymus gland, Spleen & Lymph nodes)	Blackboard and Projector Usage	Daily Exam and Oral Questions
4	2	Knowledge	* Lymphoid nodule (MALT) & Tonsils	Blackboard and Projector Usage	Daily Exam and Oral Questions
5	2	Knowledge	* Central & Peripheral nervous system	Blackboard and Projector Usage	Daily Exam and Oral Questions
6	2	Knowledge	* Conducting portion (Nose, Nasopharynx, Trachea, Bronchus & Bronchioles) & Respiratory portion (Lung)	Blackboard and Projector Usage	Daily Exam and Oral Questions
7	2	Knowledge Experiment skill	* Digestive steps; General structure of the digestive tract (Oral cavity, Mouth, Esophagus & Stomach); Small intestine, Large intestine, Rectum & Anus	Blackboard and Projector Usage	Daily Exam and Oral Questions
8	2	Knowledge Experiment skill	* Glands associated with the digestive tract (Salivary glands, Pancreas, Liver & Gallbladder)	Blackboard and Projector Usage	Daily Exam and Oral Questions
9	2	Knowledge Experiment skill	* General structure & Histophysiology of the pituitary gland	Blackboard and Projector Usage	Daily Exam and Oral Questions
10	2	Knowledge Experiment skill	* General structure of the Adrenal, Thyroid, Parathyroid, Islet of Langerhans & Pineal glands	Blackboard and Projector Usage	Daily Exam and Oral Questions
11	2	Knowledge Experiment skill	* General structure of the testes; Stages of spermatogenesis	Blackboard and Projector Usage	Daily Exam and Oral Questions

12	2	Knowledge Experiment skill	* Excretory genital ducts- Excretory genital glands (Seminal vesicles, Prostate & Cowper's glands)	Blackboard and Projector Usage	Daily Exam and Oral Questions
13	2	Knowledge Experiment skill	* General structure of ovary, Oviduct, Uterus & Vagina; Stages of follicle development; Ovulation	Blackboard and Projector Usage	Daily Exam and Oral Questions
14	2	Knowledge Experiment skill	* Structure & Function of the (kidney & nephron); Histology of the nephron (filtration, absorption & excretion); Structure of the (Ureter, Bladder & Urethra)	Blackboard and Projector Usage	Daily Exam and Oral Questions
15	2	Knowledge Experiment skill	* Thick & Thin skin	Blackboard and Projector Usage	Daily Exam and Oral Questions

12. Infrastructure	
Required Readings:	References: Basic Histology by Luiz Carlos 11 th ed
Special Requirements (Workshops, Journals, Software, Websites):	Electronic Websites:
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	Organizing workshops and courses for graduates:

13. Admission:	
Prerequisites	Admission according to the central plan
Minimum Number of Students	/
Maximum Number of Students	Admission exceeds the capacity plan

Name of the Instructor:
Teacher Aumaima Tariq Abed