

Course Description (Physiology I Theory)

Performance review of higher education institution (assessment of the academic program)

This course description summarizes the key characteristics and anticipated learning objectives for students, assessing their utilization of available learning resources, and must be aligned with the program description.

1. Educational Institution	Al-Zahrawi University
2. University Department / Center	Pharmacy
3. Course Name / Code	Physiology I (Theory)
4. Programs in which it is included	Bachelor of Pharmacy
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	First Semester, Second Stage (2025-2026)
7. Total Number of Study Hours	3 hours per week.
8. Date of preparing this description	2025-2026
9. Course Objectives: 1- Enable students to understand the basic principles of physiological functions of different tissues and organs of the human being. 2- Teach students how to evaluate these functions. 3- Correlate these functions with normal and abnormal conditions. 4- Emphasize the role of homeostatic and hemodynamic changes. 5- Integrate these changes into the physiological status.	
1. Learning Outcomes, Teaching and Learning Methods, and Evaluation	

A. Knowledge and Understanding

A.1: Knowledge of how different tissues and organs operate within the human body.

A.2: Understanding of the underlying mechanisms that enable these functions.

A.3: Ability to assess and measure the performance of various tissues and organs

A.4: Skills in using diagnostic tools and techniques to evaluate these functions.

A.5: Comprehension of how physiological functions relate to both healthy and pathological states.

A.6: Knowledge of common diseases and disorders that affect these functions.

A.7: Understanding of the body's mechanisms for maintaining internal stability (homeostasis).

A.8: Insight into how blood flow and pressure changes (hemodynamics) affect physiological functions.

A.9: Awareness of the integration and coordination of these changes within the body's overall physiological status.

A.10: Ability to assess and measure the performance of various tissues and organs

B. Subject-Specific Skills

B.1: Teaching skills in the subject of Physiology.

B.2: The student should have the ability to describe models.

B.3: The student should have the ability to link causes with natural effects.

Teaching and Learning Methods

1. Discussion and dialogue method.
2. Troubleshooting and treatment.
3. Seminars.

C. Evaluation Methods

1. Submit weekly reports.
2. Oral assessment and practical performance evaluation.
3. Written tests

D. Thinking Skills

- D1. Encourage students to find problems related to the subject of study
- D2. Encourage students to find solutions to those problems
- D3. Conduct experiments individually and collectively.
- D4. Compare results and troubleshoot

E. General and Transferable Skills

- D1. The student should be able to think logically to solve problems
- D 2. The student should acquire manual work skills.
- D 3. The student should be able to develop and innovate skills

11. Course Structure					
Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	3	Knowledge	Review the initial concepts related to the general and cellular basis of medical physiology and the study of various vital body systems	Blackboard and Screen Presentations	Daily exam and oral questions
2	3	Knowledge	Physiology of different muscles	Blackboard and Screen Presentations	Daily exam and oral questions
3-4	6	Knowledge	Physiology of Nerves A) Nerve cells	Blackboard and Screen Presentations	Daily exam and oral questions
5-6	6	Knowledge	B) Synaptic transmission	Blackboard and Screen Presentations	Daily exam and oral questions
7	3	Knowledge	Respiration A) Respiratory zones	Blackboard and Screen Presentations	Daily exam and oral questions
8	3	Knowledge	B) Gas transport between lungs and tissues	Blackboard and Screen Presentations	Daily exam and oral questions
9	3	Knowledge	Introduction to renal physiology	Blackboard and Screen Presentations	Daily exam and oral questions
10	3	Knowledge	Tubuloglomerular feedback and glomerulotubular balance	Blackboard and Screen Presentations	Daily exam and oral questions
11-12	6	Knowledge	Cardiovascular System	Blackboard and Screen Presentations	Daily exam and oral questions
13	3	Knowledge	A) Origin and spread of cardiac excitation B) Mechanical events of cardiac cycle and cardiac output	Blackboard and Screen Presentations	Daily exam and oral questions
14-15	6	Knowledge	C) Local regulatory mechanisms: Hypertension, Heart failure and angina pectoris	Blackboard and Screen Presentations	Daily exam and oral questions

12. Infrastructure	
Required Readings:	References: 1- Review of medical physiology; Ganong W.F (Ed.); 2005 2-Textbook of medical physiology by Guyton AC; latest edition.
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: Aqeel Qays Abd Uljaleel