



# Academic Course Description of Physiology

## Academic Course Description

1. Course Name
Physiology
2. Course Code
PHY121
3. Semester / Year
Second Semester 2025-2026
4. Date of Preparation
January 28, 2026
5. Available Attendance Modes
In-person
6. Total Study Hours / Total Units
Units: 4 Theory: 45 Practical: 30
7. Course Coordinator Name
Name: Fatima Mutasher Swadi Email: <a href="mailto:drfatima@uowa.edu.iq">drfatima@uowa.edu.iq</a>
8. Course Objectives

Course Objectives organized.	<p>1.To learn the principle of human physiology and the body</p> <p>2.To learn the cell structure, functions, and signaling</p> <p>3.To learn how the nervous system works</p>
------------------------------	--

### 9. Teaching and Learning Strategies

Strategy	These are the plans used by faculty members to develop the teaching and learning process for students; they are the plans followed to achieve learning objectives. They describe all classroom and extracurricular activities to achieve the program's learning outcomes, such as showing videos and images and holding discussion sessions.
----------	--

### 10. Course Structure

week	hours	Unit or Topic Name	Required Learning Outcomes	Learning Methods	Assessment Methods
1-2	9	Introduction to Physiology	Identifying physiology and the mechanisms of human body functions.	Lectures Presentations Educational Videos Lab	Written Exams Oral Exams Lab Reports
3-4	9	Homeostasis	Defining homeostasis and the components of the internal environment.	Lectures, Presentations, , Videos, Lab.	Written Exams Oral Exams Lab Reports
5-6	10	Cellular Structure, Protein, & Metabolic Pathways	Study of cell structure, protein synthesis, understanding catabolic/anabolic processes, and cellular energy forms.	Lectures, Presentations, , Videos, Lab.	Written Exams Oral Exams Lab Reports

7-8	10	Molecular Movement Across Cell Membranes	Identifying molecular transport mechanisms (passive and active transport) and functional linking.	Lectures, Presentations, Videos, Lab.	Written Exams Oral Exams Lab Reports
9-10	10	Cellular Signaling in Physiology	Distinguishing between signaling patterns, understanding signal transduction stages, and analyzing receptor types.	Lectures, Presentations, Videos, Lab.	Written Exams Oral Exams Lab Reports
11-13	15	Nerve Signaling & Nervous System Structure	Identifying the cellular structure of the nervous system and the mechanisms of nerve signaling.	Lectures, Presentations, Videos, Lab.	Written Exams Oral Exams Lab Reports
14-15	10	Sensory Physiology	Principles and types of sensory reception.	Lectures, Presentations, Videos, Lab.	Written Exams Oral Exams Lab Reports

## 11. Course Evaluation

The 100-point grade distribution is based on student tasks such as daily preparation, quizzes (daily/monthly), oral/written exams, and reports.

## 12. Learning and Teaching Resources

Required Textbooks	Vander's Human physiology: the mechanisms of body function. Eric P. Widmaier, Hershel Raff, Kevin T. Strang, last edition
Main References	As mentioned above
Supportive References	As mentioned above
Electronic Resources	Google Scholar, academic websites