

**HARRAN UNIVERSITY FACULTY OF SCIENCE AND ARTS
DEPARTMENT OF BIOLOGY**

Course Name	Code	Semester	T+P	Credits	ECTS
PHYSIOLOGY 1 LAB	0804518	3 (Fall)	0+2	1	2

Prerequisite Course(s)	-
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Language of Instruction	Turkish
Type of Course	Compulsory
Coordinator	Prof. Dr. Faruk SÜZERGÖZ
Instructor	Prof. Dr. Faruk SÜZERGÖZ
Co-instructors	
Course Objectives	In practice, the main purpose is to interpret the metabolic reactions of living systems based on the cause-and-effect relationship.
Course Outcomes	This course is for undergraduate students to learn animal physiology laboratory. In this way, the conversion of the theoretical knowledge to practice will be provided.
Course Contents	Capillary and venous blood collection, Hematocrit value determination, Plasma and serum collection, Determination of blood pressure in arteries, Hemoglobin amount determination, Blood group identification, Organization of muscle work, Characteristics of frog blood circulating in capillaries, Reflex analysis, Blood cell count.
Weeks	Topics
1.	Selective permeability of cell membrane
2.	Effects of Isotonic, Hypotonic and hypertonic solutions on living body
3.	Enzyme experiments of digestive system
4.	Determination of blind point of human eye
5.	Muscle experiment
6.	Draining capillary and vein blood, counting blood cells
7.	Testing of blood groups
8.	Midterm exam
9.	Blood pressure measurement and Hematocrit test
10.	Hemoglobin measurement
11.	Localizations of tastes on human tongue
12.	Reflex analysis
13.	Autonomous working of a frog heart
14.	Respiratory test with spirometry
General Capabilities	
Teaching and disseminating practical information about the regular workings of the body to gain general knowledge about the workings of the physiological systems in the body and to transmit them to their students and their immediate surroundings.	
Recommended or Required Reading	
1. Textbook of Medical Physiology 10th ed. Arthur C. Guyton MD, John E. Hall, WB Saunders, 2000 2. Hayvan Fizyolojisi (2001), Ege Üniversitesi, 3. Animal Physiology Harper & Row, Publishers, NY 1989. 4. Karakaş, M. Hayvan Fizyolojisi Lab. Kılavuzu. (2003). AÜFF Yayınları, No:69. Ankara.	
Form of Assessment	
Mid-term exam : 40%	
Final exam : 60%	
Projects :	
Homework :	