

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Basic Veterinary Medical Sciences
First Semester 2021/2022

Course Information	
Course Title	Animal Physiology 1
Course Number	VM122
Prerequisites	BT 103 general biology
Course Website	E-learning
Instructor	Dr. Falah Shidaifat
Office Location	G1 L3
Office Phone	26768
Office Hours	TBA
E-mail	falah@just.edu.jo
Teaching Assistant	Non
Objective and Course Description	
This is a general physiology course in which the major organ systems are described. In this course the nervous system, cardiovascular system, blood components and digestive system are discussed.	

Text Book	
Title	Textbook of Veterinary Physiology
Author(s)	James G. Cunningham and Bradley G. Klein
Publisher	AAUNDERS- ELSEVIER
Year	2007
Edition	Fourth
Book Website	http://evolve.elsevier.com/cunningham/physiology
References	Other additional Readings Clinical Anatomy and Physiology Text book of Medical Physiology by Guyton and Hall Physiology by Berne and Levy

Assessment Policy		
Assessment Type	Expected Due Date	Weight
Midterm	As scheduled by the registrar office	50%
Final Exam (practical & theory)	As scheduled by the registrar office	50%

Teaching & Learning Methods
Theory: Face to face lectures and discussion

Useful Resources
<ol style="list-style-type: none"> 1. Textbook of Medical Physiology by Guyton and Hall 2. Physiology by Berne and Levy 3. Clinical Anatomy and Physiology

Course Contents		
Weeks	Topics	Chapters
1	Membrane physiology and neuron Action potential	1, 3, 4
2	Synaptic transmission (integration and summation)	5
3	Muscle physiology	6
4	Role of central and somatic nervous system in posture and locomotion	9, 10
5	Sensory system and reflex	7,8
6	Special sense	14, 17
7	Physiology of autonomic nervous system	13
8	Physiology of the heart	18, 19, 20
9	Cardiac cycle	21
10	Blood flow and fluid exchange	22, 23
11	Control of cardiovascular function	24, 25
12	Physiology of gastrointestinal tract motility	27, 28
13	Physiology of GIT secretions	29
14	Physiology of digestion and absorption	30
15	Physiology of fermentative digestion	31
16	Physiology of blood	
	Final exam	

Additional Notes	
Exams	Most of the questions will be multiple choice and short discussion questions, however, some long question may be included. A few points from each exam may be in the form of quizzes. These will be for your benefits and are intended to facilitate your understanding.
Cheating	University rules and regulation will be applied
Attendance	University rules and regulation will be applied
Graded Exams	Midterm and final
Participation	Discussion during the lectures and answers questions are considered
Laboratory	No laboratory at this course
Projects	No project at this level