

Course Description Form

1. Course Name:					
Animal physiology					
2. Course Code:					
AGAP24_F3011					
3. Semester / Year:					
Semester 2 / 2023– 2024					
4. Description Preparation Date					
1/2/2024					
5. Available Attendance Forms:					
Lectures and electronic					
6. Number of Credit Hours					
(75) / Number of Units (3.5)					
7. Course administrator's name (mention all, if more than one name)					
Name: Assist prof . Abdulnaser Thanoon Mahmood Alkhashab					
Email: dr.abdulnassir@uomosul.edu.iq					
8. Course Objectives					
Course Objectives Enabling the student to understand and comprehend what is related to animal physiology Its relationship to animal production projects and the economic aspect Enabling the student to become familiar with the components of blood and the systems inside the body Enabling the student to know the physiological basis of various body systems in farm animals			Introducing the student to the types of fodder materials. Enabling the student to become familiar with the most important laboratory methods To measure cellular and non-cellular components of blood and the functioning of body systems		
Teaching and Learning Strategies					
Strategy		Classroom lectures Online Lectures Videoconferencing			
Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation

					method
1	Theoretic 2 Practical 3	Theoretical: a1 : The student learns about the cell, the structure of the cell, its components, and the function of each Practical: b6 Explains the laboratory equipment used in laboratories	Theoretical: Study of the cell and its structure Practical: Laboratory equipment used in laboratories	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	short exam Assignment of duty discussion
2	Theoretic 2 Practical 3	theoretical a2 A: The student learns about cellular tissues and knows the types of cellular tissues and their locations in the animal's body practical a9 Learn about drawing blood	Theoretical: Cellular tissues and their types Practical: Draw blood	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	hort exam Assignment of duty discussion
3	Theoretical 2 Practical 3	Theoretical: b 1 B: The student remembers the mechanisms and methods of transporting substances and mechanizing their transport across the cell membrane Practical a10 Mentions on blood functions	Theoretical: Mechanism and mechanization of transport across the cell membrane Practical Blood functions	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	hort exam Assignment of duty discussions
4	Theoretical 2 Practical 3	Theoretical a3 A: The student understands the digestive system, the differences in the	Theoretical The digestive system, its components and functions	Methods audio Writing style On the	hort exam Assignment of duty

		<p>digestive system between animals, and the function of each part</p> <p>Practical b7 Shows how to make a blood slide</p>	<p>Practical Make a blood slide</p>	<p>board Dialogue style Direct practical: Assigning tasks And report</p>	<p>discussions</p>
5	<p>Theoretical 2 Practical 3</p>	<p>Theoretical c1 Using PowerPoint, the student learns about the hormones and enzymes of the digestive system and their functions in the body of living organisms</p> <p>practical a11 Determine the measurement of hemoglobin</p>	<p>Theoretical Digestive hormones and enzymes</p> <p>Practical Hemoglobin</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
6	<p>Theoretical 2 Practical 3</p>	<p>theoretical b2 The student learns about the types of small intestine movements in animals, the mechanism of each type, and its benefits</p> <p>Practical b8 Shows how to estimate the volume of stacked cells</p>	<p>Theoretical Small bowel movements and the benefits of each</p> <p>Practical Size of stacked cells</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions A field visit to living and educational centers inside or outside the universit</p>
7	<p>Theoretical 2 Practical 3</p>	<p>theoretical a4 The student learns about the types of large intestine movements in animals, the mechanism of each</p>	<p>Theoretical Structure of the large intestine and the types and benefits of movements in the large intestine</p>	<p>Methods audio Writing style On the board Dialogue style</p>	<p>hort exam Assignment of duty discussions</p>

		<p>type, and its benefits</p> <p>Practical b9 Performs erythrocyte sedimentation rate estimation</p>	<p>Practical Erythrocyte sedimentation rate</p>	<p>Direct practical: Assigning tasks And report</p>	
8	<p>Theoretical 2 Practical 3</p>	<p>Theoretical b3 The student knows about the circulatory system, its parts and functions in animals</p> <p>Practicalc3 Estimation of red blood cells is calculated</p>	<p>Theoretical Circulation device, its structure and parts</p> <p>Practical Estimation of red blood cells is calculated</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
9	<p>Theoretical 2 Practical 3</p>	<p>heoretical c2 The student learns about the composition and components of blood</p> <p>Practical c4 Performs estimation of white blood cells</p>	<p>Theoretical Blood composition and its components</p> <p>Practical White blood cells</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
10	<p>Theoretical 2 Practical 3</p>	<p>theoretical a5 The student learns about the lymphatic system and the structure and parts of the device</p> <p>Practical c5 Apply blood measurements</p>	<p>Theoretical The lymphatic system and its components</p> <p>Practical Blood measurement</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
11	<p>Theoretical 2 Practical 3</p>	<p>theoretical b4 Introducing the</p>	<p>Theoretical The nervous system</p>	<p>Methods audio</p>	<p>hort exam</p>

		<p>student to the nervous system and its parts and studying the structure of the nerve cell</p> <p>practical b10 Explains blood groups</p>	<p>and nerve cell structure</p> <p>Practical Blood groups</p>	<p>Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>Assignment of duty discussions</p>
12	<p>Theoretical 2 Practical 3</p>	<p>theoretical a6 Introducing the student to the central nervous system and its functions in animals</p> <p>practical a12 Identify the Rh factor</p>	<p>Theoretical The central nervous system and its parts</p> <p>Practical Rhesus factor</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
13	<p>Theoretical 2 Practical 3</p>	<p>theoretical a7 Introducing the student to the peripheral nervous system and its functions in animals</p> <p>practical a13 Mentioned on the urinary system</p>	<p>Theoretical peripheral nervous system</p> <p>Practical Urinary tract</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report</p>	<p>hort exam Assignment of duty discussions</p>
14	<p>Theoretical 2 Practical 3</p>	<p>theoretical a8 Introducing the student to the respiratory system and its functions in animals</p> <p>practical a14 Familiar with the components of blood serum and plasma</p>	<p>Theoretical The respiratory system and its parts</p> <p>Practical Serum and blood plasma</p>	<p>Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks</p>	<p>hort exam Assignment of duty discussions</p>

				And report	
15	Theoretical 2 Practical 3	theoretical b5 Definition of the urinary system and its functions in animals practical a15 Explains histology and histological sectioning	Theoretical The urinary system in animals Practical Histology and tissue sectioning	Methods audio Writing style On the board Dialogue style Direct practical: Assigning tasks And report	hort exam Assignm ent of duty discussio ns

9. Course Evaluation

Distribution of the score from 100 according to the tasks assigned to the student such as daily preparation 5 degrees and daily examinations 5 degrees and monthly 80 degrees and reports 10 degrees

10. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Book of Fodder and feeding
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	http://www.anypdftools.com/buy/buy-pdf-splitter.html

11- Course evaluation

Calendar methods	Calendar appointment	Class	Relative weight%
Theoretical final report + practical	My theory is week 15	7 theoretical + 6 practical 4	13%
Short test	My work week 1 - 15	theoretical + 2 practical 10	6%
A theoretical and practical midterm test	week (3)	theoretical + 5 practical 4	15%
Short test	week (9)	theoretical + 2 practical	6%
Final practical test	week (12)	20	20%

Final theoretical test	Final exam week	40	40%
total	Final exam week	100	%100

12. Learning and teaching resources

Required textbooks (methodology, if any)	Animal physiology book
Main references (sources) Recommended supporting	
Assisted reproductive technologies in animals Farm 2018 Reproduction in farm animals	Journal of Animal and Poultry Sciences
Electronic references, Internet sites	Environmental physiology of farm animals

Assist prof . Abdalnaser Thanoon Alkhashab

Theoretical teacher

L. Mohamad Salem Ibrahim

Practical teacher



Muthanna Ahmed Muhammad
Chairman of the Scientific Committee

Omar Dhiyaa Muhammad
Head of the Animal Production Department