



Course Specifications

Course Title:	Animal Physiology
Course Code:	2013105-3
Program:	Bachelor in General Biology
Department:	Biology Department
College:	College of Sciences
Institution:	Taif University

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A. Course Identification

1. Credit hours: 3 hr
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 7 th level / 3 rd year
4. Pre-requisites for this course (if any): General Zoology 2012104-3
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	6 hr/Week	100%
2	Blended	-	-
3	E-learning	-	-
4	Distance learning	-	-
5	Other	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	20
3	Tutorial	-
4	Others (specify)	-
	Total	50

B. Course Objectives and Learning Outcomes

1. Course Description: This course deals with studying structure and function of the animal body and each of its major organs and systems.
2. Course Main Objective: By the end of this course, the student acquires an appropriate background about the structure and function of the animal cell, tissues and organs, and the normal structure and function of the animal body and each of its major systems.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	Recognize facts, principles, scientific terminology and concepts across animal physiology and other related sciences.	K1
1.3	Identify basics, routine procedures and technical requirements of different scientific tools and equipment used in physiological studies.	K3

CLOs		Aligned PLOs
2	Skills:	
2.2	Investigate relatively complex scientific problems, facts and opinions related to animal physiology.	S2
2.4	Demonstrate functions of macromolecules (e.g. enzymes, hormones, lipids, proteins, ...etc.) in different body systems.	S4
3	Values:	
3.1	Develop plans to perform specific tasks independently and as a team member.	V1

C. Course Content

No	List of Topics	Contact Hours
1	Chapter 1: Introduction to Animal Physiology. (Cell – Tissue - Organs – System)	3L+2P
2	Chapter 2: Body Fluids Chapter 3: Food Staffs (Carbohydrates, Proteins, Lipids, Vitamins, Minerals, Water)	3L+2P
3	Chapter 4: Enzymes and Digestion	3L+2P
4	Chapter 5: Digestive System, Digestion and Absorption	3L+2P
5	Chapter 6: Metabolism (Carbohydrates, Proteins, Lipids)	3L+2P
6	Chapter 7: The Respiratory system and Respiration Chapter 8: The Circulatory system and Blood.	3L+2P
7	Chapter 9: The Nervous system (Control) structure and functions	3L+2P
8	Chapter 10: The excretory system and Excretion, Urine Formation, Integumentary System	3L+2P
9	Chapter 11: Glands and Hormones, as well as Chemical Hormonal coordination	3L+2P
10	Chapter 12: The Muscular system (structure and function)	3L+2P
Total		30L+20P

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding:		
1.1	Recognize facts, principles, scientific terminology and concepts across	Lectures Open discussion	Paper-based exams

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	animal physiology and other related sciences.		
1.2	Identify basics, routine procedures and technical requirements of different scientific tools and equipment used in physiological studies.	Interactive learning Small group activities	Practical exam Practical reports
2.0	Skills:		
2.1	Investigate relatively complex scientific problems, facts and opinions related to animal physiology.	Open discussion Small group activities	Paper-based exams Practical exam
2.2	Demonstrate functions of macromolecules (e.g. enzymes, hormones, lipids, proteins, ...etc.) in different body systems.	Lectures Open discussion	Paper-based exams
3.0	Values:		
3.1	Develop plans to perform specific tasks independently and as a team member.	Small group activities Interactive learning	Assignments

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm Exam	5 th	20%
2	Semester Activities	Periodic	10%
3	Practical Reports	Weekly	20%
4	Final Practical Exam	11 th	10%
5	Final Exam	12 th	40%
Total			100%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

6 hours per week (as defined in the teaching schedule of the faculty member) for academic advice and consultations.

Teaching staff is also available using Blackboard web site and Taif University “Edugate” System.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Anne Waugh and Allison Grant (2018). Anatomy and Physiology in Health and Illness, 13 th edition, , Elsevier Health Sciences, UK.
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Essential References Materials	Mac E. Hadley and Jon E. Levine (2009). Endocrinology, 6 th Edition, Pearson Press.
Electronic Materials	Blackboard website Website of Saudi digital Library
Other Learning Materials	Computer-based programs and professional software

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classrooms for 40 students\lecture. - Laboratory for 20 students\ lab activity
Technology Resources (AV, data show, Smart Board, software, etc.)	- Data show.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	- Slide projector. - Permanent slides.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Quality of learning resources	Peer Reviewer	Direct
	Students	Indirect
Extent of achieving the course learning outcomes	Peer Reviewer	Direct
	Students	Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Biology Department
Reference No.	Committee number 14 - Academic Year 1442-1443H
Date	22\5\2022G – 21\10\1443H

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