



Course Specifications

Course Title:	Animal Physiology 2
Course Code:	422BIO-3
Program:	Biology
Department:	Biology
College:	College of Arts and Sciences
Institution:	Najran University

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A. Course Identification

1. Credit hours: 3
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: II/ 1 st year
4. Pre-requisites for this course (if any): 322BIO-3
5. Co-requisites for this course (if any): non

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100%
2	Blended	-	
3	E-learning	-	
4	Correspondence	-	
5	Other	-	

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify) E-learning	-
	Total	60
Other Learning Hours*		
1	Study	17
2	Assignments	3
3	Library	5
4	Projects/Research Essays/Theses	5
5	Others (specify): Office hours	10
	Total	40

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The course will provide students with the principles and basic facts of endocrine glands and endocrinology. Information on the hormonal role in coordination of certain body activities and the role of different hormonal secretions on metabolism should also be provided. The emphasis will be on mammalian Endocrinology, but there will be some coverage of other vertebrate taxa.

2. Course Main Objective

1. Describe the location and structure of endocrine glands.
2. Explain the structural and functional relationship of endocrine glands.
3. Interpretation and understanding the anatomical, physiological and hormonal aspects of reproductive system.
4. Describe student skills in searching and getting information directly.
5. Understand the role of hormonal system in metabolism

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	Define the location and structure of endocrine glands.	
1.2	Describe the structural and functional relationship of endocrine glands	
1.3	Know the functions of different hormones	
2	Skills :	
2.1	Describe the structural and functional relationship of endocrine glands.	
2.2	Interpretation the anatomical, physiological and hormonal aspects of body system.	
2.3	Explain the role of hormonal system in metabolism	
3	Competence:	
3.1	Work independently and as a team work	
3.2	Manage resources, time and other members of the group	
3.3	Communicate results of work with others	

C. Course Content: Theoretical Aspect

No	List of Topics	Contact Hours
1	Medical and Biological History of the Endocrinology	3
2	Hypothalamus structure and function, the regulatory pathway and interconnection with pituitary gland	3
3	Pituitary gland structure and function	6
4	Thyroid gland structure and function	3
5	Parathyroid gland	3
6	Internal secretions of the pancreatic gland	3
7	Adrenal gland	3
8	Thymus gland	3
9	Mucosal membranes of stomach and small intestine & its endocrine secretions	3
10	Testicular endocrine secretions	3
11	Ovarian endocrine secretions	3
12	Mechanism of the hormonal action and receptor functions	3
13	Hormones and metabolism	6

Total	45
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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		
1.1	Define the location and structure of endocrine glands.	Lectures	Final and semester exams
1.2	Describe the structural and functional relationship of endocrine glands	Lectures	Final and semester exams
1.3	Know the functions of different hormones	Lectures	Final and semester exams
2.0	Skills		
2.1	Understand the structural and functional relationship of endocrine glands.	Student negotiations	Class room activity
2.2	Interpretation and understanding the anatomical, physiological and hormonal aspects of body system.	Student negotiations	Class room activity
...	Explain the role of hormonal system in metabolism	Student negotiations	Class room activity
3.0	Competence		
3.1	Work independently and as a team work	Student negotiations	Class room activity
3.2	Manage resources, time and other members of the group	Student negotiations	Class room activity
...	Communicate results of work with others	Student negotiations	Class room activity

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Theoretical First Exam	6	20
2	Theoretical Second Exam	11	20
3	Theoretical Final Exam	14	50
	Assays , oral presentations	continuous	10

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

E. Student Academic Counseling and Support

<p>Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :</p> <ul style="list-style-type: none"> - 10 hours per week as office hours - Academic advisor 10 hours per week
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F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> - <u>Shlomo Melmed & Kenneth S. Polonsky & P. Reed Larsen & Henry M. 2015. Kronenberg.</u> Williams Textbook of Endocrinology, 13th Edition. Elsevier Publishing - Mader, S (2004). Biology 8th (ed). McGraw-Hill. Inc., New York
Essential References Materials	Richard W. Hill, Gordon A., Margaret Anderson. ANIMAL PHYSIOLOGY THIRD EDITION, Sinauer Associates, Inc. Publishers, Sunderland, Massachusetts
Electronic Materials	Websites
Other Learning Materials	Films related to the course

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) 40 seats/ class room Computer access with data show and internet
Technology Resources (AV, data show, Smart Board, software,	Data show, Overhead projector
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Models

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course evaluation	Student	direct
Student-faculty meeting	Faculty, Program Leaders	indirect
Departmental council discussions	Staff members	indirect
Discussion with the group of faculty teaching the same course	Peer Reviewer	indirect
Periodical departmental revisions of each method of teaching	Peer Reviewer	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	
Reference No.	
Date	