



# Course Specifications

<b>Course Title:</b>	<b>Animal Histology</b>
<b>Course Code:</b>	<b>222BIO-2</b>
<b>Program:</b>	<b>Biology</b>
<b>Department:</b>	<b>Biology</b>
<b>College:</b>	<b>College of Arts and Sciences</b>
<b>Institution:</b>	<b>Najran University</b>

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## A. Course Identification

<b>1. Credit hours:</b> 3
<b>2. Course type</b>
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"/>
<b>3. Level/year at which this course is offered:</b> II/ 1 <sup>st</sup> year
<b>4. Pre-requisites for this course (if any):</b> 101BIO-4
<b>5. Co-requisites for this course (if any):</b> non

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	100%
2	Blended	-	
3	E-learning	-	
4	Correspondence	-	
5	Other	-	

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	15
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify) E-learning	5-
	<b>Total</b>	45
<b>Other Learning Hours*</b>		
1	Study	22
2	Assignments	3
3	Library	5
4	Projects/Research Essays/Theses	5
5	Others (specify): Office hours	10
	<b>Total</b>	45

\* 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

An introductory course designed to familiarize the student with the study of basic histology. The course will focus on the care and use of a microscope and basic tissue identification. Structure and identification of tissue systems and organs is emphasized at the cellular level.

### 2. Course Main Objective

1. Provide students with basic information to study the precise tissue in human and animal body.
2. Understand the pattern of structure and functions of different tissues.
3. Understand the differences between structure of different tissues
4. Help students a taste of biology, and appreciate the efforts of scientists and their role in the progress of science and humanity.
5. Linking Histological organ and convenient installation to do the job carried out.
6. Acquire the skill to identify microscopic images of tissue, whether in print or through examination under a microscope.
7. Identify practical ways to prepare microscopic slides.

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
<b>1</b>	<b>Knowledge:</b>	
1.1	Know the basic information on tissues in human and animal body.	
1.2	Describe different types of animal tissue.	
1.3	Identify practical ways to prepare microscopic slides.	
<b>2</b>	<b>Skills :</b>	
2.1	Describe the pattern of structure and functions of different tissues.	
2.2	Recognize the differences between structure of different tissues	
2.3	Linking Histological organ and convenient installation to do the job carried out.	
<b>3</b>	<b>Competence:</b>	
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	Introduction to Histology - Definition of animal tissue. epithelial tissue study in terms of classification and whereabouts study glands and types of	1
2	Epithelium, definition, origin and classification	2
3	Connective tissue definition, origin and classification	2
4	Structural study of the connective tissue (bone + cartilage).	1
5	Study muscle tissue	1
6	Study of nerve tissue	1
7	Study the installation of the skin	1
8	Study the histological structure of the digestive system	2
9	Study glands attached to the digestive system	1

10	Study the histological structure of the respiratory system	1
11	Study the histological structure of the urinary system	1
12	Study the histological structure of the male & female reproductive system	1
<b>Total</b>		15

### C. Course Content: practical Aspect

No	List of Topics	Contact Hours
1	Introduction to Histology - Definition of animal tissue.	1
2	T.S. in Epithelium types	2
3	T.S. in Connective tissue types	2
4	T.S. in (bone + cartilage).	1
5	T.S. in muscle tissue	1
6	T.S. in nerve tissue	1
7	T.S. in skin	1
8	T.S. in digestive system	2
9	T.S. in glands attached to the digestive system	1
10	T.S. in the respiratory system	1
11	T.S. in the urinary system	1
12	T.S. in the male and female reproductive system	1
<b>Total</b>		15

### D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge:</b>		
1.1	Know the basic information on tissues in human and animal body.	Lectures	Final and semester exams
1.2	Describe different types of animal tissue.	Lectures	Final and semester exams
...	Identify practical ways to prepare microscopic slides.		
<b>2.0</b>	<b>Skills :</b>		
2.1	Understand the pattern of structure and functions of different tissues.	Student negotiations	Class room activity
2.2	Understand the differences between structure of different tissues	Student negotiations	Class room activity
...	Linking Histological organ and convenient installation to do the job carried out.	Student negotiations	Class room activity
<b>3.0</b>	<b>Competence:</b>		
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	Practical First Exam	6	10%
2	Theoretical First Exam	6	10%
3	Practical Second Exam	12	10%
	Theoretical Second Exam	12	10%
4	Practical Final Exam	15	10%
5	Theoretical Final Exam	15	50%

\*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 :

- 10 hours per week as office hours
- Academic advisor 10 hours per week

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	Histology. D. Mohammed Hassan Hamoud and D. Walid Hamid Youssef. Alahiah for publication and distribution. Jordan.
<b>Essential References Materials</b>	2. Introduction to histology. By Cormac Davi
<b>Electronic Materials</b>	Websites
<b>Other Learning Materials</b>	Films related to the course

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) 40 seats/ class room/20 seats/lab Computer access with data show and internet
<b>Technology Resources</b> (AV, data show, Smart Board, software,	Data show, Overhead projector
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Models Microscopes

## 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	