هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	**Histology**
Course Code:	ZOOL252
Program:	**Bachelor of science in Biology**
Department:	**Biology Department**
College:	**College of Science**
Institution:	**Jazan University**
Version:	**T-104**
Last Revision Date:	*Pick Revision Date.*

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	2				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered:	**6th level/ Second year**				
4. Course general Description					

-The histology course deals with the microscopic structure and function of major tissue types and their cellular components as well as systems that constitute animal bodies

-This course describes some topics in histology which include epithelium, connective, muscular, nervous tissue, respiratory and reproductive systems

5. Pre-requirements for this course (if any): BIOL101

6. Co- requirements for this course (if any): None

7. Course Main Objective(s):
At the end of the course students will be able to:
This course is designed to provide students with the following concepts:

1- Recognize, identify and draw epithelial, connective, muscular and nervous tissues
2- Describe the microscopic anatomy of the respiratory system
3- Study the microscopic anatomy of the urinary, male and female reproductive systems
4- Study the components of blood and hemopoiesis
5- Identify and recognize the histology of the digestive system and associated glands

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	10	76.9%
2.	E-learning	1	7.7%
3.	Hybrid • Traditional classroom • E-learning	1	7.7%
4.	Distance learning	1	7.7%

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	11
2.	Laboratory/Studio	١١
3.	Field	-
4.	Tutorial	-
5.	Others (Self-study)	2
	Total	٢٤

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	List all characteristics, importance, features, steps of Histology aspects.	K1.3	Lectures	Quizzes, Short Answer Question (SAQ), MCQs
1.2	Differentiate (Compare) between different mechanisms, functions, practices and aspects related to Histology.	K2.1	Lectures	Direct questions
1.3	Draw all systems, organs, cells and its contents, diagrams and figures of Histology.	K2.3	Lectures, Lab work	Long or short answer questions, homework
1.4	Classify all Histological specimens and processes	K3.3	Lab work	Quizzes, homework
2.0	Skills			
2.1	Examine theoretically or practically the sides, photos, diagrams of different animal tissues	S1.3	Lectures	Long or short answer questions

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.2	Write a report about any practical or theoretical tasks related to histology	S4.3	Lectures	Long or short answer questions
3.0	Values, autonomy, and responsibility			
3.2	Illustrate awareness of risk assessment and safety when dealing with preparation of permanent slides of different studied animal tissues.	V3.2	Lab work	Practical Homework

C. Course Content

No	List of Topics	Contact Hours
1.	**Epithelium and glands: simple epithelia, stratified epithelia, types of glands.**	٢
2.	**Connective tissue; functions of C.T, components and types of C.T., cartilages and bones**	٢
3.	**Muscles, general characters, types, microstructure and function of muscular tissues.**	٢
4.	**Nervous tissue: general characters and functions of nervous tissue, structure and types of nerve cells. Special senses; the eye, the ear.**	٢
5.	**Special senses; the eye, the ear.**	٢
6.	**Respiratory system: Nasal cavity, trachea, respiratory portion of the respiratory system.**	٢
7.	**Blood and circulatory system: Functions of blood, components, arteries, veins and capillaries.**	٢
8.	**Digestive system: The oral cavity,general plan of the alimentary tract, digestive system glands.**	٢
9.	**Urinary system: The kidney, the nephron, the urinary bladder, male and female urethra.**	٢
10.	**Reproductive system: The testes and associated structures in the male, the ovaries and structures in the female.**	٢
Total		٢٠

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Written assignment	3	5%
2.	Theoretical quiz	٣	5%
٣.	mid-term exam	٦	10%
٤.	Practical quiz	٤	%٥
٥	Practical assignment	٦	%٥
٦	Final practical exam	١٠	%٢٠

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities
1. References and Learning Resources

Essential References	• Alhaj, Hamid Ahmed (2011). Principles of histology. Knowledge publication Co • Altayeb Nory bin Taher and Jarar, Bashir Mahmoud (2013). Descriptive histology. King Saud university scientific publications • Albakri Nadia Abdel-Mohsen, Iqteis Ismail Ayad (2017). Histology Atlas. Arab publication store **(In English).** • Brock biology of microorganisms Global edition (2022), by Michael T. Madigan, Kelly S. Benderand Daniel H. Buckley • Leslie, P. Gartner and James, L. Hiatt (2007) Colour Textbook of Histology. Saunders, New York.
Supportive References	• Histology: A Text and Atlas: With Correlated Cell and Molecular Biology 7th Edition by, Michael H. Ross (2019). • Histology: An essential text book D.J. Lowrie. (2020).
Electronic Materials	• **Zoological record**
Other Learning Materials	-------

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Traditional classrooms and E-learning
Technology equipment (projector, smart board, software)	(projector, smart board, software)
Other equipment (depending on the nature of the specialty)	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students Course Coordinator	Direct (Questionnaire)
Effectiveness of students assessment	Peer Reviewer	Direct (Cross Check marking)
Quality of learning resources	Students Course Coordinator Quality Committee	Indirect
The extent to which CLOs have been achieved	Course Coordinator Quality Committee	Indirect
Other	----	----

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Biology Department Board
REFERENCE NO.	BIO2214
DATE	20/9/2022AD