

Course Syllabus

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|----|--|--|--|
| 1 | Course title | Histology | |
| 2 | Course number | 0334432 | |
| 3 | Credit hours | 3 | |
| | Contact hours (theory, practical) | 2,3 | |
| 4 | Prerequisites/corequisites | 0334261 | |
| 5 | Program title | Bachelor of Biological Sciences | |
| 6 | Program code | 0304 | |
| 7 | Awarding institution | The University of Jordan | |
| 8 | School | Science | |
| 9 | Department | Biological Sciences | |
| 10 | Course level | Fourth Year | |
| 11 | Year of study and semester (s) | First semester 2023/2024 | |
| 12 | Other department (s) involved in teaching the course | none | |
| 13 | Main teaching language | English | |
| 14 | Delivery method | <input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online | |
| 15 | Online platforms(s) | <input type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others..... | |
| 16 | Issuing/Revision Date | First semester 2022/2023 | |

17 Course Coordinator:

Name: Hana' Alebous, PhD

Contact hours: Monday 10:00 – 11:00 and Tuesday 12:00 -1:00

Office number: Biology Building 113

Phone number: 22239

Email: h.alebous@ju.edu.jo



18 Other instructors:

None

19 Course Description:

This course covers the following topics: types of tissues, characteristics, structural and functional aspects of the following tissues: epithelial, connective, cartilage, bone, blood, muscular and nervous. In addition, the course deals with study of histology of the following systems: integumentary; lymphoid, digestive, respiratory, excretory, cardiovascular, reproductive, and endocrine.

Laboratory: Histological sections will be used to locate and identify subcellular structures, normal mammalian tissues and organs. Laboratory sessions will include some presentations by the professor as well.

20 Course aims and outcomes:

A- Aims:

This Course aims to introduce undergraduate student to basic concepts of Human Histology, in addition to acquainting them with histological implications in medicine. The theoretical part of course will cover the epithelial, connective muscular and nervous tissues, and the histology of various systems with emphasis on their structure and function. The practical part of this course aims to allow students identify components of different tissues with concentration on how structures are adapted to perform the specific function.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

| SLOs CLOs | SLO (1) | SLO (2) | SLO (3) | SLO (4) | SLO (5) | SLO (6) |
|---|---|--|---|---|--|---|
| Understand basic concepts of Human Histology | An ability to identify, formulate, and solve broadly-defined technical or Scientific problems by applying knowledge of mathematics and science and /or technical topics to areas relevant to discipline | An ability to formulate or design a system, process, procedure or program to meet desired needs. | An ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgement to draw conclusions | An ability to communicate effectively with a range of audiences | An ability to understand ethical and professional responsibilities and the impact of technical and /or scientific solutions in global , economic, environmental, and societal contexts | An ability to function effectively on teams that establish goals plan tasks meet deadlines and analyze risk and uncertainty |
| Understand Histology & Its Methods of Study | X | | | | | |
| Identify basic tissue-types from their microscopic appearance | X | | | | | |
| Recognize the histology of epithelial, connective muscular and nervous tissues, and the histology of various systems with emphasis on their structure | X | | | | | |

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| and function. | | | | | | | |
| Identify components of different tissues with concentration on how structures are adapted to perform the specific function. | X | | | | | | |

21. Topic Outline and Schedule:

| Week | Lecture | Topic | Student Learning Outcome | Learning Methods (Face to Face/Blended/ Fully Online) | Platform | Synchronous / Asynchronous Lecturing | Evaluation Methods |
|------|---------|----------------------------------|--------------------------|---|----------|--------------------------------------|--------------------|
| 1 | 1.1 | Introduction+ Orientation | - | Face to Face | - | - | Exam |
| | 1.2 | Histology & Its Methods of Study | 1 | Face to Face | - | - | Exam |
| | 1.3 | Introduction+ Orientation | - | Face to Face | - | - | Exam |
| 2 | 2.1 | Histology & Its Methods of Study | 1 | Face to Face | - | - | Exam |

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|---|-----|----------------------|-----|--------------|---|---|------|--|---|
| | | | | | | | | | Mesc editio Ch 1 |
| | 2.2 | Epithelial Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 4 |
| | 2.3 | Epithelial Tissue | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 3 | 3.1 | Epithelial Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 4 |
| | 3.2 | Connective Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 5 |
| | 3.3 | Connective Tissue | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with |

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| | | | | | | | | | Corre editio |
| 4 | 4.1 | Connective Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 5 |
| | 4.2 | Adipose Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 6 |
| | 4.3 | Cartilage and Bone | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 5 | 5.1 | Cartilage | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 7 |
| | 5.2 | Bone | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 8 |
| | 5.3 | Muscle tissue and | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas |

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| | | Integumentary System | | | | | | | with Corre editio |
| 6 | 6.1 | Nerve Tissue & the Nervous System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 9 |
| | 6.2 | Muscle Tissue | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 6.3 | Nervous Tissue | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 7 | 7.1 | The Circulatory System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 7.2 | Blood | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |

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| | 7.3 | Circulatory System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 8 | 8.1 | Hemopoiesis | 2-5 | Face to Face | - | - | Exam | | Juncq histor atlas Mesc editio Ch 1 |
| | 8.2 | The Immune System & Lymphoid Organs | 2-5 | Face to Face | - | - | Exam | | Juncq histor atlas Mesc editio Ch 1 |
| | 8.3 | Lymphoid System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 9 | 9.1 | Digestive Tract | 2-5 | Face to Face | - | - | Exam | | Juncq histor atlas Mesc editio Ch 1 |
| | 9.2 | Digestive Tract | 2-5 | Face to Face | - | - | Exam | | Juncq histor atlas Mesc editio |

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| | | | | | | | | | Ch 1 |
| | 9.3 | Digestive System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corro editio |
| 10 | 10.1 | Organs Associated with the Digestive Tract | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 10.2 | The Respiratory System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 10.3 | Digestive System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corro editio |
| 11 | 11.1 | Skin | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 11.2 | The Urinary System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas |

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| | | | | | | | | | Mesc editio Ch 1 |
| | 11.3 | Respiratory System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corro editio |
| 12 | 12.1 | The Urinary System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 1 |
| | 12.2 | Endocrine Glands | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 2 |
| | 12.3 | Urinary System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corro editio |
| 13 | 13.1 | The Male Reproductive System | 2-5 | Face to Face | - | - | Exam | | Junc histo atlas Mesc editio Ch 2 |

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| | 13.2 | The Female Reproductive System | 2-5 | Face to Face | - | - | Exam | | Juncq histo atlas Mesc editio Ch 2 |
| | 13.3 | Male and Female Reproductive System | 2-5 | Face to Face | - | - | Exam | | Eros P. 20 Atlas with Corre editio |
| 14 | 14.1 | The Eye & Ear: Special Sense Organs | 2-5 | Face to Face | - | - | Exam | | Juncq histo atlas Mesc editio Ch 2 |
| | 14.2 | The Eye & Ear: Special Sense Organs | 2-5 | Face to Face | - | - | Exam | | Juncq histo atlas Mesc editio Ch 2 |
| 15 | 15.1 | The Eye & Ear: Special Sense Organs | 2-5 | Face to Face | - | - | Exam | | Juncq histo atlas Mesc editio Ch 2 |
| | 15.2 | The Eye & Ear: Special Sense Organs | 2-5 | Face to Face | - | - | Exam | | Juncq histo atlas Mesc editio |

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

| Evaluation Activity | Mark | Topic(s) | SLOs | Period (Week) | Platform |
|---------------------|------|--------------|------|---------------|----------|
| First Exam | 15 | Ch1-10 | 1-5 | TBA | School |
| Mid Lab. | 10 | Topic 1-6 | 1-5 | TBA | School |
| Second Exam | 15 | Ch11-23 | 1-5 | TBA | School |
| Final Lab. | 10 | All material | 1-5 | TBA | School |
| Final Exam | 50 | All material | 4-5 | TBA | School |

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

Data Show Projector, internet access, Microsoft Team

24 Course Policies:

A- Attendance policies: Regular class *attendance* is expected, *attendance* by *seating* number.

B- Absences from exams and submitting assignments on time: Absences from exams and handing in assignments on time: Reporting a valid reason of absence is accepted

C- Health and safety procedures: Health and safety procedures: All students should comply with the university Health and safety procedures

D- Honesty policy regarding cheating, plagiarism, misbehavior: All students should comply with the university Honesty policy regarding cheating, plagiarism, misbehavior

E- Grading policy: Depends on average



First Hour Exam: 15 points Second Hour Exam: 15 points

Final Exam: 40 points Mid. Term Lab. Exam: 15 points Final Lab. Exam; 15 points

F- Available university services that support achievement in the course: *Data Show Projector*, internet access

25 References:

A- Required book(s), assigned reading and audio-visuals:

1- Junqueira's basic histology text and atlas by Anthony L. Mescher. 15th edition, 2018. McGraw-Hill Education

2- Eroschenko, Victor P. 2017. DiFiore's Atlas of Histology with Functional Correlations. 13th edition

B- Recommended books, materials, and media:

1- Histology: A Text and Atlas by M. Ross and W. Pawlina. 7th edition, 2016. Lippincott Williams & Wilkins

2- Netter's Essential Histology by Ovalle, W.K. and P. C. Nahirney. 2nd Edition, 2013. W.B. Saunders Company

26 Additional information:

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| Name of Course Coordinator: - | Hana Alebous | -Signature: Hana | Date: |
| 01/2024 | | | |
| Head of Curriculum Committee/Department: ----- | Signature: ----- | | |
| ----- | | | |
| Head of Department: ----- | Signature: ----- | | |
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| Head of Curriculum Committee/Faculty: ----- | Signature: ---- | | |
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| Dean: ----- | Signature: ----- | | |
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