



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	General Zoology
2	Course number	0334261
3	Credit hours (theory, practical)	4 credit hours (3 hrs theory+ 1 hr lab)
	Contact hours (theory, practical)	Theory: 3 hrs weekly Lab: 3 hrs weekly
4	Prerequisites/co-requisites	General Biology 0304102
5	Program title	B.Sc. in Biological Sciences
6	Program code	04
7	Awarding institution	The University of Jordan
8	Faculty	Faculty of Science
9	Department	Department of Biological Sciences
10	Level of course	Second year
11	Year of study and semester (s)	2016/2017, second semester
12	Final Qualification	NA
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	26/ 01/ 2017

16. Course Coordinator:

Office number, office hours, phone numbers, and email addresses should be listed.
 Dr. Hesham Al-Younes; 032 Biology; 8-10 Sunday, 11-12:30 Monday, 13-14 Tuesday and 9-10 Thursday
 Ext. 22201; alyounes@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

18. Course Description:

As stated in the approved study plan.

General Zoology is a four credit hour course that consists of two 75-minute lectures and one three-hour laboratory session per week. The course is considered as an overview of the field of zoology. This course investigates the taxonomy, morphology, anatomy, physiology, ecology and evolution of organisms belonging to the kingdoms Protista and Animalia. The laboratory will provide students with the experience with regard to the diversity of organisms from taxonomic, morphological, structural, functional and ecological perspectives. Students are expected to pass in both the theory and the practical examinations.

19. Course aims and outcomes:**A- Aims:**

1. To investigate the unicellular eukaryotic organisms belonging to the Kingdom Protista, which possess animal-like properties.
2. To be aware of levels of organization of animals and criteria used for categorization of organisms belonging to the kingdom Animalia.
3. To systematically analyze phyla of the kingdom Animalia.
4. To have knowledge about morphology, anatomy, physiology and ecology of animals belonging to each phylum with a focus on some prominent examples on each phylum.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

By the completion of this course, students will be able to:

1. develop an understanding of levels of organization and classification of organisms.
2. characterize and distinguish protistans and animals.
3. differentiate among protistan and animal life cycles, behaviours, adaptations, and relationships.
4. have a substantial interest in the discipline zoology.
5. appreciate the role of other organisms, which share our planet.
6. scientifically draw animals mounted on microscopic slides and prepared by different microscopic techniques.
7. identify aquatic and terrestrial animals encountered on a daily basis.
8. recall major morphological characteristics of invertebrate and vertebrate organisms and recognize functions of at least major external animal parts.
9. recall ecological, economical and medical, if present, significance of animals.

20. Topic Outline and Schedule:**Theory part**

<u>Topic</u>	<u>Week No.</u>
Introduction+Taxonomy+Protozoan groups	1
Protozoan groups	2
Porifera+Cnidaria	3
Cnidaria+Platyhelminthes	4
Platyhelminthes	5
Nematoda	6
Rotifera+Acanthocephala+Mollusca	7
Mollusca+Annelida	8
Annelida+Arthropoda	9
Arthropoda	10
Echinodermata	11
Protochordata: Uro- and Cephalochordata	12-15
Chordata: fishes, amphibians, reptiles, birds, mammals	

Laboratory

<u>Topic</u>	<u>Week No.</u>
Introduction	1
Protozoan groups	2
Protozoan groups	3
Porifera	4
Cnidaria	5
Platyhelminthes	6
Nematoda+Rotifera	7
Mollusca	8
Annelida	9
Arthropoda	10
Arthropoda	11
Echinodermata	12
Chordata	13
Chordata	14

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Lecturing and discussions throughout the semester

Handling directly with organism specimens in the laboratory

PowerPoint presentation and movies

Office Hours

22. Evaluation Methods and Course Requirements:

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

The grade is distributed as follows:

Description	Weight
<i>Theory midterm exam</i>	30%
<i>Laboratory midterm exam</i>	10%
<i>Laboratory reports</i>	10%
<i>Laboratory final exam</i>	10%
<i>Theory final exam</i>	40%

23. Course Policies:

A- Attendance policies:

Absence from lectures should not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course.

B- Absences from exams:

You should talk to your instructor as soon as possible if you miss an exam. All such cases will be dealt with according to the rules outlined in your student handbook.

C- Health and safety procedures:

Lab coat must be worn during the entire laboratory sessions. Gloves must also be worn in certain occasions.

D- Honesty policy regarding cheating, plagiarism, misbehaviour:

All violations pertaining to cheating, plagiarism, misbehaviour will be dealt with in accordance to the rules outlined in your student handbook.

E- Grading policy:

All exams are made up of the following question forms: multiple choice questions, True or False questions, matching questions, drawings and labelling questions, diagramming developmental cycles, short essay questions, "fill in the blank" questions.

F- Available university services that support achievement in the course:

24. Required equipment:

Overhead projectors

Data show projectors

Microscopes

Permanent slides of organisms

Specimens

Charts

Models

25. References:

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

COURSE TEXT BOOK :

1. "Integrated Principles of Zoology". 2014. 16th Edition.
By Hickman Jr., C. Keen, S., Larson, A., Eisenhour, D., l'Anson, H. and Roberts, L.
Publisher: McGraw-Hill.
2. "Laboratory Studies in Integrated Principles of Zoology". 2006. 13th Edition.
By Hickman Jr., C. and Kats, L. B. Publisher: McGraw-Hill.

B- Recommended books, materials, and media:

1. **Biology of the Invertebrates.** Pechenik, J.A. 2010. 6th Edition. Publisher: McGraw-Hill.
2. **Vertebrates: Comparative Anatomy, Function, Evolution.** 2009. Kardong, K.V. 5th Edition. Publisher: McGraw-Hill.

26. Additional information:

None

Name of Course Instructor: **Dr. Hesham Al-Younes** Signature: -----Date: **26/ 01/ 2017**

Head of curriculum committee/Department: **Dr Hana' Alebous** Signature: -----

Head of Department: **Dr Hana' Alebous** Signature: -----

Head of curriculum committee/Faculty: Signature: -----

Dean: **Dr Sami Mahmoud** Signature: -----

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File