

## Course Outline of Zoology

### 1. Instructor's Information

Instructor's / Coordinator's Name:	Ahmed Abu-zaiton
Office Hours:	11-12 AM
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Research and Teaching Assistant / Supervisor / Technical (if any):	

### 2. Course Description

Major invertebrate phyla, their classification, habitat, morphology and study of various organs with emphasis on the evolutionary changes within and between phyla and ecological adaptation also, the course includes basic information on chordates, their origin & phylogenetic relationship with different vertebrate groups. Comparative study of various organ systems and their modifications which occurred as a result of adaptation from the evolutionary point of view

### 3. Course Information

Course No.: 404213	Course Title: zoology	Level: 2
Course Type: Theoretical	Prerequisite / 404102	Class Time: 9-10
Academic Year: 2019 / 2020	Semester: first	Study hours: 3

### 4. Course Objectives:

a-	To understand the classification of animals phylums
b-	To explain the main characteristics of each phylum
c-	To know Comparative study of various organ systems and their modifications
d-	.....

### 5. Learning Outcomes

#### (Knowledge, Skills, and Competencies)

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

1. Classify the animals group
2. Evaluate the basic information of chordates

3. Debate the function of different organs in Aves
4. ....
5. ....
6. ....

**6. Course Content**

<b>Week</b>	<b>Subject</b>
First	Introduction to Animal kingdom
Second	protozoan group
Third	Porifera and Cnidaria
Fourth	Platyhelminthes
Fifth	Nematoda
Sixth	Mollusca and Annelida
	<b>First Exam</b>
Eighth	Arthropoda
Ninth	Echinodermata and Chordate
Tenth	Vertebrates - fishes
Eleventh	Vertebrates - Amphibians
	<b>Second Exam</b>
Thirteenth	Vertebrates – Reptiles
Fourteenth	Vertebrates - Birds
Fifteenth	Comparative anatomical and biological studies of vertebrates 1.
Sixteenth	<b>Final Exam</b>

**7. Teaching and Learning Strategies and Evaluation Methods**

<b>No.</b>	<b>Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Learning Activities</b>	<b>Evaluation /Measurement Method (Exam/ presentations/ discussion/ assignments)</b>
1				
2				
3				
4				
5				
6				

**8. Assessment**

<b>Methods Used</b>	<b>Assessment Time</b>	<b>Distribution of grades</b>
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1- semester work (report, assignments, attendance)	During semester	
2- First Exam	Seventh week	
3- Second Exam	Twelfth week	
4- Final Exam	Week of the final exams	

## 9. Textbook

Main Reference	Integrated Principles of Zoology
Author	Hickman, C.P. et al
Publisher	McGraw-Hill.
Year	2010
Edition	12 edition
Textbook Website	

## 10. Extra References (books and research published in periodicals or websites)

1-	
2-	
3-	



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Mission  
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**20. Reasons of the Initiation of the Program**

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**21. Program Objectives**

1. ....  
2. ....  
3. ....  
4. ....  
5. ....  
6. ....

**22. Targeted Learning Outcomes**

Upon completion of the program, the student will be able to:  
1. ....  
2. ....  
3. ....  
4. ....  
5. ....

**23. Conditions of Admission to the Program**

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## **24. Teaching Strategies and Methods**

Targeted learning outcomes are developed through the following teaching strategies and activities:

blended learning, Flip learning, cooperative learning, discussion and dialogue, practical approach to knowledge acquisition through application, inquiry, critical thinking and problem solving, creative thinking, lecture, debate, ...etc.

## **25. Evaluation Methods**

The achievement of the targeted learning outcomes is proved through the following evaluation methods:

Examples

1. Continuing evaluation during lectures with real evaluation strategies and tools: performance-based evaluation, observation, communication, self-review, ...
2. Writing a research paper in one of the subjects of the course provided that it is not literally translated, but a documented paper showing the features of writer's character.
3. Applying some of the official assessment tools and providing a relevant report
4. Developing a scale that addresses a developmental aspect
5. Providing a summary and critique of some recent studies dealing with the subjects of the course
1. 6. Examinations in accordance with instructions

## **26. Benchmarks**

Targeted learning outcomes have been developed to reflect the following benchmarks (vision and mission of the University, standards of local and global accreditation commissions, international universities, relevant legislative and syndicate commissions, academic staff, students, employers, and community representatives)

**27. Four Outstanding International Universities Offer the Same Specialization and their Plans Have been Benefited from**

1. ....
2. ....
3. ....
4. ....

**28. Program Instructions**

Instructions of success and failure, assessment, and the like, which are not included in the degree award instructions.

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**29. Study Plan**

**1- University Requirements**

**A. Compulsory Requirements**

Course Number	Course Title	Credit Hours		Prerequisite
		Theoretical	Practical	

**B. Optional Courses**

Course Number	Course Title	Credit Hours		Prerequisite
		Theoretical	Practical	

**2- Faculty Requirements**

**A. Compulsory Requirements**

Course Number	Course Title	Credit Hours	Prerequisite

		<b>Theoretical</b>	<b>Practical</b>	

**B. Optional Courses**

Course Number	Course Title	Credit Hours		Prerequisite
		Theoretical	Practical	

**3- Specialization Requirements**

**A. Compulsory Requirements**

Course Number	Course Title	Credit Hours		Prerequisite
		Theoretical	Practical	

**B. Optional Courses**

Course Number	Course Title	Credit Hours		Prerequisite
		Theoretical	Practical	

**30. Field Training (if available)**

Description, timing, training credit hours ..... ..... ..... ..... .....
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**31. Graduation Projects / Research (if any)**

Description, timing, relevant credit hours ..... ..... .....
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**C. Equipment and Tools**

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**D- Academic Staff**

No.	Name	Date of Birth	Nationality	General and Accurate Specialization	University of graduation and graduation date (last qualification)	Educational Qualifications	Academic rank, date, and university name	Course(s) to be taught
1.								
2.								
3.								
4.								
5...								

**E- Office and technical materials needed to implement the program**

Type of office material	Number	Available for		
		Academic Staff	Students	Both
Books				
Scientific Journals				
Electronic Books				
Electronic Scientific Journals				
Data Base				

**F- Authorities that provide facilities for practical and field training**

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**35. Methods to Ensure Program Quality**

1. What are the methods used to assess the teaching and learning process, and the effectiveness of the study plan?

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2. What are the methods used to obtain feedback from students regarding the quality of education, skills and experiences acquired?

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3. What are the methods used to develop the skills, knowledge and competencies of the academic staff in the program?

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4. What criteria and indicators are used to ensure program quality commitment?

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**36. Statistics and surveys issued by official authorities showing the numbers of graduate students and the unemployment rate in this specialization**

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Program Coordinator Name: -Ahmed abu-zaiton Signature ----- Date -10-2-2021

Head of the Department:----- Signature-----

Rapporteur of the Plan Committee/ Faculty:----- Signature-----

Dean: ----- Signature -----