

Course Syllabus

1	Course title	Comparative Anatomy
2	Course number	0304964
3	Credit hours (theory, practical)	3 theory
	Contact hours (theory, practical)	3 theory
4	Prerequisites/corequisites	
5	Program title	
6	Program code	
7	Awarding institution	The University of Jordan
8	School	Sciences
9	Department	Biology
10	Level of course	Ph. D.
11	Year of study and semester (s)	
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	

16. Course Coordinator:

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

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.

19. Course aims and outcomes:

<p>A- Aims: Introduce students to the vertebrates in terms of their evolution, structure and functional morphology for the different classes of vertebrates. In addition, highlights on the systematics and species concepts will be discussed.</p>
<p>B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to</p>
Understanding of the evolution of vertebrates
Understanding of the concept of vertebrates systematics and species concept
Diversity of vertebrates and their relationships
Understanding the early development of Deuterostomes and Protostomes
Understanding the diversity and functional morphology of fishes
Understanding the diversity and functional morphology of amphibians
Understanding the diversity and functional morphology of reptiles
Understanding the diversity and functional morphology of birds
Understanding the diversity and functional morphology of mammals

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Evolution of vertebrates	1		Understanding of the evolution of vertebrates		Handouts
Introduction to Systematics	2		The concepts of systematics	examination	Handouts
Species Concept	2		Different definition for the species concept	examination	Handouts
Chordates: Characteristics and Diversity	3		Understand the scale of vertebrates diversity	examination	Handouts
Development of Deuterostomes and Protostomes	4		Concepts of early embryological patterns among animals	examination	Hickman, J. et al. 2008. Integrated Principles of Zoology, 14 th Edition
Early Fishes	5-6		Understanding	examination	Hickman, J. et

Fish: Structure and Function			the diversity and functional morphology of fishes		al. 2008. Integrated Principles of Zoology, 14 th Edition
Amphibians Amphibians: Structure and Function	7-8		Understanding the diversity and functional morphology of Amphibians	examination	Hickman, J. et al. 2008. Integrated Principles of Zoology, 14 th Edition
Reptiles Reptiles: Structure and Function	8-9		Understanding the diversity and functional morphology of Reptiles	examination	Hickman, J. et al. 2008. Integrated Principles of Zoology, 14 th Edition
Birds Birds: Structure and Function	10-11		Understanding the diversity and functional morphology of Birds	examination	Hickman, J. et al. 2008. Integrated Principles of Zoology, 14 th Edition
Mammals Mammals: Structure and Function	12-13		Understanding the diversity and functional morphology of Mammals	examination	Hickman, J. et al. 2008. Integrated Principles of Zoology, 14 th Edition
Seminars	14-16		Presentation of up-to-date articles on vertebrates	Oral presentations	

21. Teaching Methods and Assignments:

<p>Development of ILOs is promoted through the following teaching and learning methods: Direct contact with the students through lectures using power point presentations Reading from textbooks and handouts Discussing scientific papers</p>

22. Evaluation Methods and Course Requirements:

<p>Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements: Students will have two written examinations, and oral presentation</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">First Examination</td> <td style="width: 20%; text-align: center;">30</td> <td style="width: 20%;"></td> </tr> <tr> <td>Seminar</td> <td style="text-align: center;">20</td> <td></td> </tr> <tr> <td>Final Examination</td> <td style="text-align: center;">50</td> <td></td> </tr> </table>	First Examination	30		Seminar	20		Final Examination	50	
First Examination	30								
Seminar	20								
Final Examination	50								

23. Course Policies:

A- Attendance policies: Full attendance

B- Absences from exams and handing in assignments on time: Students whom miss a total of 5 contact hours will be dismissed from the course lectures. Students missing the exam will receive a zero grade, unless they have acceptable excuse from the instructor.

C- Health and safety procedures: Classes will be held in class rooms at the Department of Biology

D- Honesty policy regarding cheating, plagiarism, misbehavior: Any student found cheating or show inappropriate behaviour in the course will be dismissed

E- Grading policy:

First Examination	30
Seminar	20
Final Examination	50

F- Available university services that support achievement in the course: all classes are equipped with data show and blackboards

24. Required equipment: (Facilities, Tools, Labs, Training....)

data show and blackboards

25. References:

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

Hickman, J. et al. 2008. Integrated Principles of Zoology, 14th Edition

Kindel et al. 2015. Great Transformations in Vertebrate Evolution.

Recommended books, materials, and media:

Kardong, K. 2019. Vertebrates: Comparative Anatomy, Function, Evolution. 8th Edition

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

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

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

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

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