



وكالة الجامعة للشؤون التعليمية
البرامج الدراسية والتطوير

(5)

مختصر توصيف المقرر

Comparative Anatomy

تشريح مقارن	:
BIOL-216	:
الفقاريات BIOL-214	:
لا يوجد	:
	:
3	:
Module Title:	Comparative Anatomy
Module ID:	BIOL-216
Prerequisite (Co-requisite):	Vertebrates, BIOL-214
Co-requisite :	N/A
Course Level:	4th level
Credit Hours:	3 Hours

:(Course Information) *

Module Description

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A study of the similarities of anatomy and phylogenetic relationships of major vertebrate groups. Specifically, we will compare phylogeny, ontogeny (development) and morphology in groups ranging from protochordates to highly derived vertebrates. We will examine structure of anatomical features, emphasizing how anatomy relates to function (including comparisons of specialized features in organisms adapted to different conditions).

Module Aims

أهداف المقرر:

1	To learn the anatomy of several representative vertebrates	1
2	To gain familiarity with anatomical terms and descriptors	2
3	To learn how to use guides and diagrams to identify anatomical features in an actual organism	3

4	To learn dissection techniques and can understand how morphology relates to function	4
5	To understand how biomechanical constraints influence anatomy and physiology	5
6	To understand the basic workings of major vertebrate systems (including the integumentary system, skeletal system, muscular system, digestive system, respiratory system, circulatory system, urogenital system, and nervous system).	6

Learning Outcomes:

مخرجات التعليم:

1	Understand the basic concepts associated with each system of the body.	1
2	Identify structures that are in place in the body systems to perform the functions according to the habits or habitats of the animals.	2
3	Understand how the components of the body systems evolved when the animals moved from one habit and/or habitat to another to meet the requirements of the new environment.	3
4	Examine a body part and identify it and then state to which animal/animal group it belongs to.	4
5	Describe the basic structure and functioning of the body systems of different animal groups living in different habitats or with different habits.	5
6	Demonstrate basic dissection skills.	6

Course Contents:

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ساعات التدريس (Hours)	الأسابيع (Weeks)	(Subjects)
3	1	Introduction to comparative anatomy (Systematics of vertebrates - Principles of the evolution of vertebrates).
3	1	integumentary system
3	1	Skeletal System
6	2	Musculoskeletal system
6	2	Digestive System
6	2	Respiratory System

6	2	Circulatory System
6	2	Urogenital System
6	2	Nervous System

Textbook and References:

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ISBN	Publishing Year	Publisher	اسم المؤلف (رئيسي) Author's Name	Textbook title
978-1617310423	2015	Morton Publishing Company	Dale W. Fishbeck	Comparative Anatomy
	Publishing Year	Publisher	اسم المؤلف (رئيسي) Author's Name	Reference
978-153-939-82-33	2016	e-Kitap Projesi	Bell F. Jeffrey	Comparative Anatomy and Physiology
978-0078023026	2014	McGraw-Hill Education	Kenneth Kardong	Vertebrates: Comparative Anatomy, Function, Evolution
978-0077657055	2014	McGraw-Hill Education	Kenneth Kardong	Comparative Vertebrate Anatomy: A Laboratory Dissection Guide

