

**The University of Jordan/Aqaba**

**Faculty of Marine Sciences**

**Department of Marine Biology**

**First Semester, 2015/2016**

**Course Syllabus-**

<b>Course Title:</b> Vertebrate Anatomy Lab	<b>Course Code: 5503353</b>
<b>Course Level:</b>	<b>Course prerequisite (S) and/ or co-requisite (S):</b>
<b>Lecture Time:</b> 2.00 – 5.00	<b>Credit hours: 1</b>

<b>Academic Staff Specifics</b>				
<b>Name</b>	<b>Rank</b>	<b>Office No.</b>	<b>Office Hours</b>	<b>E-mail Address</b>
<b>Dr. Maroof A. Khalaf</b>	<b>Professor</b>		<b>9.00 – 10.00</b>	<b>m.khalaf@ju.edu.jo</b>

**Course module objectives:**

To Understand the Know Lab Safety General Guideline's and to know the *Typical positional terms used in case of vertebrates*. To focus on External and Internal Anatomy of various Vertebrate groups starting from Amphioxus, Tunicates. To know how to dissect and expose various systems digestive, respiratory, excretory and reproductive system of each of the following vertebrate group: cartilaginous fish (e.g. shark), bony fishes (e.g. Tilapia), Amphibian (e.g. frog), Avians (e.g. birds) and mammals (e.g. rat).

**Course module components**

Title: Text book I. Vertebrates: Comparative anatomy, function and evolution. 2012

Author(s): Kenneth V. Kardong, Ph.D.

Washington State University

Publisher: Published by McGraw-Hill

Support material (s): homework, video clips

### Teaching methods:

- Lectures, discussion groups, tutorial, problem solving, debates, ....etc.
- The use of power Point presentations, Illustrations with modules, educational animations, and movies.

### Learning outcomes:

- **Knowledge and understanding**  
At the end of this module, students will be able to:
- Understand the Know Lab Safety General Guideline's and to know the *Typical positional terms used in case of vertebrates*.
- Know the external and internal Anatomy of various Vertebrate groups starting from Amphioxus, Tunicates. Their characteristics and habitat.
- To know how to dissect and expose various systems digestive, respiratory, excretory and reproductive system of each of the following vertebrate group: cartilaginous fish (e.g. shark), bony fishes (e.g. Tilapia), Amphibian (e.g. frog), Avians (e.g. birds) and mammals (e.g. rat).
- Draw and learn the parts of each system what are the organs, what is the function for each of the above mentioned organ.

### Cognitive skills (Thinking and analysis)

- The thinking skills will be developed by encouraging students to conclude answers to different questions that the instructor intends to use during the presentation of the scientific material.
- The instructor intend to stimulate the student`s analytical thinking side via connections with general aspects in daily life or through questions, net searching, and home works.

Allocation of Marks	
Assessment Instruments	Mark
Mid Term examination	30%
Report, research projects, home works	10%
Quizzes	10%
Final Examination	50%
Total	100%

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**Expected workload:**

On average students need to spend 2 hours of study and preparations for each 50-minutes lecture.

**Attendance Policy:**

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean, the student shall be considered to have withdrawn from the course.