



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Marine Physiology
2	Course number	5501451
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	5501102
5	Program title	Bachelor in Marine Biology
6	Program code	5501
7	Awarding institution	The University of Jordan-Aqaba
8	Faculty	Marine Sciences
9	Department	Marine Biology
10	Level of course	Fourth year
11	Year of study and semester (s)	second Semester 2014/2015
12	Final Qualification	BSc.
13	Other department (s) involved in teaching the course	non
14	Language of Instruction	English
15	Date of production/revision	2010

16. Course Coordinator:

Prof. Fuad A. Al-Horani,
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Office hours;
e-mail; fal_horani@hotmail.com

17. Other instructors:

Prof. Fuad A. Al-Horani,
Tel. 03-2090450-35072
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e-mail; fal_horani@hotmail.com

18. Course Description:

As stated in the approved study plan.

The physiological concepts related to the organ systems including the nervous, muscular, cardiovascular, excretory and respiratory system. Special focus will be given to marine organisms. Comparative study will include all categories of marine organisms.

19. Course aims and outcomes:

A- Aims:

The course will provide the students with the basic understanding of the principles of Physiology. The topics covered in this course will allow the students to better understand the organ systems and function in different organisms. The course also introduces the students to different adaptations in the animal kingdoms for living in the different environmental conditions, especially in marine environment.

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

Knowledge and understanding

At the end of this module, students will be able to:

- * Know the structure and properties of organ systems in the different model organisms.
- * Know the physiological adaptations in nature.
- * know how plants are adapted to live in marine environment.

Cognitive skills (thinking and analysis).

- The Thinking and Meditation about the Great Ability of God in Creation of our body and the biological systems.
- 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 intends to stimulate the student's analytical thinking side via connections with general aspects in daily life or through questions, net searching, and home works.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to marine physiology	1				
The structure and function of nervous system	2-4				
Neuronal function	4-5				
Communication along and between neurons	6				
Sensing the environment	7				
Muscles and animal movement	8-9				
Circulation	10				
Gas Exchange and Acid base balance	11-12				
Ionic and Osmotic Balance	12-13				
Digestive system in marine organisms	14				
Introduction about Plant Physiology	15				
Photosynthesis in marine environment	15-16				
Calcification in marine environment	17				

21. Teaching Methods and Assignments:

Power point lectures, questions and discussions, videos, home works
 Assignments such as preparing of reports on topics related to the subject.
 Students are requested to present a power point presentation on a subject of his/her choice within the framework of the study material.
 Laboratory and field training are offered.

22. Evaluation Methods and Course Requirements:

Mid Term exam, Final Exam, Quizzes, Reports, Talks, Home works, Attendance, General performance

23. Course Policies:

Attendance policies: 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 of the college shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

B- Absences from exams and handing in assignments on time:

Absences without a medical or emergency excuse acceptable to and approved by the Dean of the college shall receive a mark of zero

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Attempts to cheat during an exam or plagiarism for the written reports shall lead to a mark of zero in the exam or report and might lead to failure in the course with other consequences according to the regulations of the university.

E- Grading policy:

Mid Term 30%, Reports, research projects, Home works, presentations 15%, Quizzes. **10%, Final Exam 100%**

94-100	4	A
87-93	3.75	A-
80-86	3.5	B+
75-79	3	B
70-74	2.75	B-
65-69	2.5	C+
60-64	2	C
55-59	1.75	C-
50-54	1.5	D+
45-49	1	D
40-44	0.75	D-
0-39	0	F

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

Library sources are available, internet, laboratory facilities

24. Required equipment:

Lab top, data show, white board, and the normal facilities of the lab.
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25. References:

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

B- Recommended books, materials, and media:

Title: Eckert Animal Physiology; mechanisms and adaptations 5th Edition.

or(s); David Randall. Warren Burggren and Kathleen French
isher: W.H. Freeman and Company, New York

In addition to handling **support material (s)**.

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: -----

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