



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	General biology (2)
2	Course number	5501102
3	Credit hours (theory, practical)	3 theory
	Contact hours (theory, practical)	
4	Prerequisites/corequisites	5501101
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	First year
11	Year of study and semester (s)	First 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:

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

Prof. Maroof A. Khalaf,
Tel. 03-2090450-35073
Office hours;
e-mail; m.khalaf@ju.edu.jo

17. Other instructors:

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

Prof. Maroof A. Khalaf,
Tel. 03-2090450-35073
Office hours;
e-mail; m.khalaf@ju.edu.jo

18. Course Description:

As stated in the approved study plan.

Animal & plant tissues, mammalian circulation, immune system, gas exchange controlling the internal environment, nervous system & motor mechanism, transport in plants, plant nutrition, plant reproduction & development.

19. Course aims and outcomes:**A- Aims:**

- The course will provide the students with information on early earth and the origin of life.
- The course will provide the students with the basic understanding of the biology of prokaryotes, protists, fungi, plant and animal.
- The course will provide the students with adequate information the systems such circulatory, respiratory, reproductive of invertebrate and vertebrate animals.
- The topics covered in this course will allow the students to better comprehend other courses related to marine organisms.

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

Learning outcomes:

- **Knowledge and understanding**

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

- Know what is Biology and what are the conditions on earth that made the origin of life possible, the new information's that enabled scientists to revise our understanding of the tree of life.
- Prokaryotes structure, function, their mode of nutrition, harmful and beneficial impacts on human.
- Protists and different types of algae, plants diversity and evolution of seed plants, fungi and its impacts on ecosystem and human welfare.
- An introduction to animal diversity with both invertebrates and vertebrate animal groups. To have a comprehensive understanding on animal forms and functions focusing on various animal systems.
- Know the structure and function of various systems in invertebrate and invertebrate animals.

- **Cognitive skills (thinking and analysis).**

- The Thinking and Meditation about the Great Ability of God in Creation of early life on earth and the structure and function of the biological systems of invertebrates and vertebrates.
- 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.

Week	Topic	Chapter
1	Introduction & The Tree of life: An Introduction to Biological Diversity	26
2	Prokaryotes	27
3	Protists	28
4	Plant Diversity I: How plants colonized Land	29
5	Plant Diversity II: The evolution of seed plants	30
TAB	First Hour Exam	
6	Fungi	31
7	An Introduction to Animal Diversity &	32
8	Invertebrates	33
9	Vertebrates	34
10	Plant structure, Growth, and Development	35
11	Transport in Vascular Plant	36
TAB	Second Hour Exam	
12	Angiosperm Reproduction and Biotechnology	38
13	Animal nutrition	41
14	Circulatory and Gas Exchange	42
15	Osmoregulation and Excretion	44
16	Animal Reproduction	46

20.7 Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction and the tree of life: An introduction to Biological Diversity.	1-2			Quiz	
Prokaryotes	3-4			Quiz	
Protists	5-6			Quiz	
Plant Diversity I: How plants colonize land	7			Quiz	
Plant Diversity II. The evolution of seed plants.	8			Quiz	
Fungi	9			Quiz	
An introduction to animal diversity.	10			Quiz	
Invertebrates	11-12			Homework and quiz	
Vertebrates	13			Quiz	
Circulatory system and gas exchange	14			Quiz	
Osmoregulation and Excretion	15			Quiz	
Animal reproduction	16			Quiz	

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

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.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1. Quizzes
2. Power point presentations
3. Home work
4. Participation in the class
5. Mid Exam
6. Final Exam

23. Course Policies:

A- Attendance policies: I strongly recommend you attend every lecture. Missing any class will put you at a distinct disadvantage when test taken. 2- Any student with six or more unexcused absences from lecture sessions can be legally dropped from the course.

B- Absences from exams and handing in assignments on time: The only valid excuses for missing an exam are: death in the family, illness, or accident. In this case you must provide evidence of some kind and you must report me within 3 days.

C- Health and safety procedures: Students who miss the exam due to illness or other excuse must notify me within the first week after the exam, so make up arrangements can be Made.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

1. Students are not expected to talk in class while the instructor is lecturing
2. After two warning of taking or any other classroom disruption, the Student will be automatically removed from the class.
3. Any act of cheating, or academic misconduct is subject to penalties.
4. The minimum penalty for any students caught cheating will receive a zero on that test.

E- Grading policy: I will base your grade on your performance in the exams and classroom

Type	Grading
Quizzes, Scientific reports and participation	20%
Midterm exam:	30%
Final Exam:	50%

Exams: The examinations will consist of any combination of Multiple choice, short answer, fill in the blank, matching, identification of figures or essay questions

F- Available university services that support achievement in the course: Books in the library, data show, printers, scanners

Mid Term 30%, Reports, research projects, Home works, presentations 15%, Quizzes. 10%, Final Exam 50%

Available university services that support achievement in the course:

Library sources are available, internet, laboratory facilities

24. Required equipment:

1. Lab top
2. Data how
3. white board
4. Printer
5. scanner
6. markers

25. References:

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

Textbook: All required readings are in the Biology, 2008. Campbell And Reece. Seventh Edition Benjamin and Coming Publisher.

B- Recommended books, materials, and media: Internet access, videos

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