



**The University of Jordan**

**Accreditation & Quality Assurance Centre**

# **COURSE Syllabus**

<b>1</b>	Course title	<b>Biodiversity</b>
<b>2</b>	Course number	<b>304952</b>
<b>3</b>	<b>Credit hours (theory, practical)</b>	<b>3</b>
	<b>Contact hours (theory, practical)</b>	<b>3</b>
<b>4</b>	Prerequisites/co-requisites	<b>None</b>
<b>5</b>	Program title	<b>Biological Sciences</b>
<b>6</b>	Program code	
<b>7</b>	Awarding institution	<b>University of Jordan</b>
<b>8</b>	Faculty	<b>Science</b>
<b>9</b>	Department	<b>Biology</b>
<b>10</b>	Level of course	<b>Ph.D.</b>
<b>11</b>	Year of study and semester (s)	<b>first Semester 2018/2019</b>
<b>12</b>	Final Qualification	<b>PH.D. in Biological Sciences</b>
<b>13</b>	Other department (s) involved in teaching the course	<b>None</b>
<b>14</b>	Language of Instruction	<b>English</b>
<b>15</b>	Date of production/revision	<b>30/Dec 2018</b>

#### 16. Course Coordinator:

Sawsan Oran PhD  
 Office: 106 Biology building  
 Phone number: 22226  
 Email: Oransaw@ju.edu.jo

#### 17. Other instructors:

None

#### 18. Course Description:

. The course of Biodiversity is designed to introduce the students to get knowledge about the meaning of biodiversity and its subcomponents of biosystematics, species diversity, species loss, habitats and ecosystems. Biodiversity is teaching the students the uses and values of biodiversity, as well as conservation and management of biodiversity at national, regional and international levels. The diversity of living organisms like animals , plants , animals and microorganisms. The concept of extinction, threatened organisms are also demonstrated.

1.

**2. 19. Course aims and outcomes:**

3.

**A- Aims:**

The student will be learning about the meaning of biodiversity and its components, presenting the diversity of all living organisms at local and global levels, the diversity of different ecosystems and its related biota. Presenting knowledge about the causes of pollution and species loss. Learning about the methods of conservation of living organisms.

B. Intended learning outcomes (ILOs): upon successful completion of this course students will be able to: Knowledge and understanding of Biodiversity concept and its subcomponents, uses and values of biodiversity, including sustainable use of biodiversity and the methods used in valuing biodiversity; the conservation and management of biodiversity at national, regional and international levels.

**20. Topic Outline and Schedule:****1. Systematic and Diversity:**

- 1.1 Genetic diversity
- 1.2 Systematic and diversity
- 1.3 Species inventory

**2. Species diversity**

- 2.1 species diversity: An Introduction
- 2.2 Microorganisms
- 2.3 Lower plant diversity
- 2.4 Higher plant diversity
- 2.5. Nematodes
- 2.6. Deep-sea Invertebrates
- 2.7 Soil microfauna
- 2.8 Fishes
- 2.9 Higher vertebrates
- 2.10 Island species
- 2.11 Centres of species diversity

**3. Species loss**

- 3.1 Species extinction
- 3.2 Threatened species

**4. Habitat and ecosystems**

- 4.1 Global habitat classification
- 4.2 Biodiversity and global climate change
- 4.3 Tropical moist forests
- 4.4 Grass lands
- 4.5 Wetlands

4.6 Coral reefs

4.7 Mangroves

### **5. Uses of Biodiversity**

5.1 Plant uses

5.2 Animal uses

### **6. Valuing biodiversity**

6.1 Biodiversity and economics

### **7. National policies and Instruments**

7.1 National legislations

7.2 Protected areas

### **8. International policies and instruments**

8.1 Multilateral treaties

8.2 International policy and legal assistance

8.3 International aid

8.4 Management of international resources

### **9. Biodiversity conservation**

9.1 Current practices in conservation

9.2. The convention of biological diversity

## **Grading:**

<b>-Midterm Exam</b>	<b>30%</b>
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<b>-Presentation and term paper</b>	<b>30%</b>
<b>-Final Exam</b>	<b>40%</b>
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<b>Total</b>	<b>100%</b>

## **21. Teaching Methods and Assignments:**

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

**Interactive lecture using data show**  
**Class and Office hour discussions**

**22. Evaluation Methods and Course Requirements:**

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

**Term paper**  
**Presentations**  
**Exams**

**23. Course Policies:**

- A- Attendance policies: Regular class attendance is expected.
- B- Absences from exams and handing in assignments on time: Reporting a valid reason of absence is accepted.
- C. Respect and honesty policy regarding cheating, plagiarism, misbehaviour: All students should comply with the university Honesty policy regarding cheating, plagiarism, misbehaviour
- D. open dialogue and free discussion related to the course topics
- E- Grading policy: Depends on average

**24. Required equipment:**

Available university services that support achievement in the course:  
Data Show , white boards, *and* internet access

**25. References:****References**

- GCEP (1998). Jordan Country Study on Biological Diversity. Amman. Pp. 416.
- UNEP (1995). Global Biodiversity Assessment. Cambridge University Press, Cambridge. Pp. 1140.
- UNEP (2000). Global Environment Outlook 2000. Earth Publication Limited, London. Pp. 398.
- Johnson. N.(1995). Biodiversity Support Program. Biodiversity in the Balance: Approaches to Setting Geographic Conservation Priorities. WWF. Pp. 116.

**26. Additional information:**

Name of Course Coordinator: Prof. Dr. Sawsan Oran Signature: ----- Date: 7 Jan  
2018

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

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

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

Assurance

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Head of Department  
Assistant Dean for Quality

Course File