

King Saud University  
College of Science  
Zoology Department



جامعة الملك سعود  
كلية العلوم  
قسم علم الحيوان

---

## **ENVIRONMENT AND POLLUTION**

**Course Number: 570 Zoo**

**Credits: 2 hours (2+0)**

**Instructor: Prof. Hamed A. El-Serehy**

**Office 122 B / Building 5**

**Date: Sunday / Tuesday 10-11 AM**

**Office hours: Saturday 10-12, Monday 10-12**

### **Course Objectives**

**This course aims at studying the principal concepts of Environment and Pollution as an integrated part of student's overall curriculum.**

### **Course Description**

**This course will cover the basic concepts in ecology, primary and secondary environmental factors, water pollution, air pollution, soil pollution and food pollution as well as pollution control.**

## Teaching Facilities

1-Board

2-Handout

3-Multimedia

4-Power point presentation and data show

5-Assienments and reports to be submitted by students

6-Every student will give a seminar or short talk or presentation in selected topic.

### Course outline

Week	Topic
1-	Course description, Definition, Expression, Suggested Readings, Evaluation Pollution: Hazards: Types and effects; Biological Hazards: Diseases, economics and geography
2-4	Water pollution: Principal forms of water pollution. Pollution of streams and lakes. Ocean pollution. Groundwater pollution and its control. Controlling surface-water pollution. Water pollution control laws
5-6	Air pollution: Outdoor and Indoor pollution. Smog and acid deposition.
6-	First Quiz 31 /10/2010
7-	Air pollution: Effects of air pollution on living organisms and materials. Controlling air pollution
8-	Midterm Exam 21/11/2010
9-10	Soil pollution
11-	Second Quiz 28/12/2010
12-	Food pollution
13-	Every student must give a presentation for 15 minutes
14-	Final Exam according University's overall schedule

## Evaluation

First Quiz	10%
Second Quiz	10%
Activity	10%
Midterm Exam	20%
Final Exam	50%
<b>Total</b>	<b>100%</b>

## Suggested Readings

1-Brown, G.W.JR (1968): Desert Biology. Special topics on the physical and biological aspects of arid regions. Academic Press, New York, London.

2-Clark, R. B. (1997): Marine pollution. 4<sup>th</sup> Ed. Clarendon Press, Oxford.

3-Miller, G.T.JR. (1992): An introduction to environmental science. Living in the environment. 7<sup>th</sup> Ed. Wadsworth Publishing Company, Belmont, California, Wadsworth Inc.

4-Hichman, C.; Roberts, L. and Larson, A. (1996): Integrated principles of Zoology, WCB Publishers.

5-العودات ، محمد. باصهي، عبد اللهز (2001): التلوث وحماية البيئة. جامعة الملك سعود

6-شحاته، حسن. (2001): التلوث البيئي ومخاطر الطاقة. الدار العربية. القاهرة

*Prof. Hamed A. El-Serefy*