

University of Oum El Bouaghi

Faculty of Exact Sciences and Natural and Life Sciences

Department of Natural and Life Sciences

Level : 03ed year Natural and Life Sciences' Licence surdents  
environmental écology spécialty



# **Animal Écophysiology**

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## **Course plan**

**Chapter 01** : Introduction.

**Chapter 02** : Nutrition in animals.

**Chapter 03** : Circulation and gas exchange.

**Chapter 04** : Regulation of the internal environment.

**Chapter 05** : Reproduction in animals.

## **Detailed plan**

### **Chapter 01 : introduction**

- 1.1. Physiological Adaptations
- 1.2. Interactions with the Environment
- 1.3. Responses to Environmental Change
- 1.4. Understanding Animal Adaptation
- 1.5. Conserving Biodiversity

➤ Key word definition;

Zoology, botany, animal biology, molecular, cellular and functional aspects.

### **Chapter 02 : Nutrition in animals**

- 2.1. Nutritional needs
- 2.2. Diets and types of ingestion
- 2.3. Food processing.

### **Chapter 03 : Circulation and gas exchange.**

- 3.1. Circulation in animals
- 3.2. Gas exchange in animals

### **Chapter 04 : Regulation of the internal environment**

- 4.1. Overview of Homeostasis
- 4.2. Body Temperature Regulation
- 4.3. Water Balance and Waste Elimination

### **Chapter 05 : Reproduction in animals.**

- 5.1. Overview of Animal Reproduction
- 5.2. The Mechanisms of Sexual Reproduction