



UAE University – College of Science – Biology Department

**COURSE SYLLABUS
APPLIED ECOLOGY
CRN: 22503 - BIOE 370**

1. Instructor:

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2. Textbook: Applied ecology and environmental management – edition 2: E.I. Newman.

3. COURSE OBJECTIVES

- Understand major ecology and environment-related problems facing the world
- Understanding biological concepts and their role in helping to solve the world and UAE related issues
- Have a hands-on experience on how to solve and address challenges and develop action plans for ecological and environmental problems
- Understand ways on how to apply scientific knowledge to solve real-world problems

4. ACTIVITIES

- Chapter Summary
- Chapter Summary and paper review
- Paper writing, presenting and publishing : from UAE statistics on ecological and environmental issues

5. COURSE ASSESSMENTS

- Quizzes: 4 quizzes (15%)
- Activities:
 - i. Chapter Summary: 5%
 - ii. Paper REVIEW: 5%
- Midterm: 20%
- Final Exam: 25%
- Laboratory: 30%
- Cheating and/or plagiarism will NOT be permitted

6. CHAPTERS

- Week 1-2: Chapter 2: Energy, Carbon Balance and Global Climate change
- Week 3-4: Chapter 3: Water
- Week 5: Chapter 4: Soil
- Week 6: Chapter 5: Fish from the sea
- Week 7-8: Chapter 6: Management of Grazing lands
- Week 9-10: Chapter 7: Management of Forests
- Week 12: Chapter 8: Pest Control
- Week 13: Chapter 9: Pollution
- Week 14-15: Chapter 10: Conservation and Management of Wild Species
- Week 16: Chapter 11: Restoration of Communities