



SYLLABUS

Course Code	Course Num.	Course Name	Credit Hours	Lec.	Lab.	Tut.	Private study	Pre-requisites	Course Level	Teaching Language
BIO	252	Principle of Environmental Impact Assessment	2	1	2	0	4-6	BIO 251	4	English



A. Course Description

Course description: This course has titles which will introduce environmental impact assessment. So, this course involves acts, laws, and regulations, assessment of impact on ecosystem dimension (terrestrial and aquatic ecosystem), assessment of impact on physical environmental dimension (soil and land use, water resource and air), assessment of quality of life dimension (health and socio-economic), public participation and public hearing in EIA process, mitigation and monitoring.

B. Course Outcomes

At the end of this course the student will be able to:

1. Understand principles, process, and necessary tools and techniques for environmental impact assessment, mitigation and monitoring.
2. Evaluate impacts from project's activities on natural resources, ecological system and community.

C. References

Required Textbook

- *Environmental Impact Statements*, Canada: John Wiley & Sons, Inc. (2000). ISBN-13: 978-0471358688.
- *Environmental Assessment in Developing and Transitional Countries - Principles, Methods & Practice*, (2000). ISBN-13: 978-0471985570.

Course Website: <https://books.google.com.sa/books?>

D. Topics Outline

D1. Lectures topics

1. *Introduction, Background of EIA, SEA, HIA.*
2. *The steps and EIA processes.*
3. *Acts, laws, and regulations.*
4. *Assessment of impact on ecosystem dimension (Terrestrial ecosystem).*
5. *Assessment of impact on ecosystem dimension (Aquatic ecosystem).*
6. *Assessment of impact on physical environmental dimension (soil and land use).*
7. *Assessment of impact on physical environmental dimension (water resource and air).*
8. *Assessment of Quality of life dimension (health and socio-economic).*
9. *Public participation and public hearing in EIA process.*
10. *Mitigation and monitoring.*
11. *Conclusion and students' presentation.*
12. *Oral presentation.*

D2. Laboratories topics



1. **Introduction Supply drawer check in General Lab rules and instructions.**
2. **Microscope assignment and review:** Microscope practice Wet mount, Brownian vs. Motility.
3. **Microbes in the environment Transfer of bacteria.**
4. **Staining Methods:** simple, acid-fast and Gram stain.
5. **Staining Methods:** Special stains.
6. **Microbial metabolism.**
7. **Microbial Growth.**
8. **Control of Microbial Growth.**
9. **Microbiology of Water**
10. **Microbiology of soil**
11. **Medical Microbiology Demonstration.**

E. Office Hours

Office hours give students the opportunity to ask in-depth questions and to explore points of confusion or interest that cannot be fully addressed in class.

F. Exams & Grading System

The semi-official dates of the exams for this course are:

- **Midterm 1:** 6th or 7th week.
- **Midterm 2:** 11th or 12th week.
- **Final Exam Lab:** 16th week.
- **Quizzes & Homeworks:** During the semester.
- **Final Exam:** 16th week.

Your course grade will be based on your semester work as follows:

Midterm 1: 15%	Midterm 2: 15%	Final Exam: 40%
Final Exam Lab: 15%	Lab reports: 5%	Quizzes, Homework, Attendance & Participation: 10%

The grading distribution:

A ⁺	A	B ⁺	B	C ⁺	C	D ⁺	D	F
[95, 100]	[90, 95]	[85, 90]	[80, 85]	[75, 80]	[70, 75]	[65, 70]	[60, 65]	[0, 60]



G. Student Attendance/Absence

Only three situations will be considered as possible excused absences:

- Occurrence of a birth or death in the immediate family will be excused. (“Immediate family” is defined by the University as spouse, grandparents, parents, brother, or sister).
- Severe illness in which a student is under the care of a doctor and physically unable to attend class will be excused. Students are not excused for a doctor's appointment. Do not make appointments that conflict with rehearsals. Notes from the University Health Center will be accepted.

Executive Rules for Study Regulations and Exams

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