Course Specifications

General Information

Course name	Ecology
Course number	BIOL2307
Faculty	
Department	
Course type	College Needs
Course level	2
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Understanding the students the basic concepts of ecology

2 - Provide students with some of the necessary research and exploration skills

3 - Enable students to identify the components of ecosystems

4 - Introduce students to environmental pollutants and disposal methods

5 - Provide the theoretical side and focus on the practical aspects of Applied

Intended Learning Outcomes

Knowledge and Understanding	* The diference between individuals, population, community and Ecosystem
	* classification of Ecology
	* composition of the ecosystem including biotic & abiotic factors
	* Food chains & food web and ecological pyramids
	* factors affect on distribution of living organisms
	* Ecological indicators and Biological interrelationships
	* Biodiversity of organisms
	* Types of pollutions
	* Nutrient cycling and pollution
Intellectual Skills	* The trade-off between the population and the community
	* Differentiation between the biotic and abiotic factors
	* Discover the dangers of pollutant
	* Correct reading food map
Professional Skills	* Design study check the difference betweenindividuals, population, community
	* Useing the food chains for obtaining the needed energy
	* Utilization the distribution of living organisms to Know the topography of ecosystem
	* Dealing with environmental pollutants and use them
	* Dealing with environmental pollutants and use them
General Skill	* Critical Thinking
	* Comparison between alternatives and decision-making
	* Presentation and interpretation of results

Course Contents

1 - Introduction to Ecology& concept of ecology
2 - the individuals ,population, community and Ecosystem
3 - classification of Ecology
4 - composition of the ecosystem including biotic & abiotic factors
5 - Food chains & food web and ecological pyramids
6 - factors affect on distribution of living organisms
7 - Ecological indicators and Biological interrelationships
8 - Biodiversity of organisms
9 - Types of pollutions
10 - Nutrient cycling and pollution

Teaching and Learning Methods

1 - Lectures
2 - Debate
3 - Additional readings

Students Assessment

Assessment Method	TIME	MARKS
First hour exam	30minutes	15
Second hour exam	30minutes	15
Attendence		10
Research and Reports		10
Final exam	120minutes	50