

**HARRAN UNIVERSITY FACULTY OF SCIENCE AND ARTS  
DEPARTMENT OF BIOLOGY**

Course Name	Code	Semester	T+P	Credits	ECTS
Ecology I	0804522	5 <sup>th</sup> Year/Fall	2+0	2	4

Prerequisite Course(s)	
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Language of Instruction	Turkish
Type of Course	Compulsory
Coordinator	Prof. Dr. Ömer Faruk KAYA
Instructor	Prof. Dr. Ömer Faruk KAYA
Co-instructors	
Course Objectives	Basic ecological concepts, historical development of ecology and understanding the relationship with other disciplines
Course Outcomes	to learn the concept of ecosystem, ecosystem function and elements
Course Contents	Basic concepts, biotic and abiotic elements of ecosystems, terrestrial, marine and freshwater ecology

Weeks	Topics
1	Basic Concepts in Ecology
2	Classification of Ecology
3	Ecology and Adaptation
4	Terrestrial Ecology (climate, light)
5	Terrestrial Ecology (temperature, water)
6	Terrestrial Ecology (wind, atmospheric pressure, soil)
7	Mid-term exam
8	Biotic elements (Producers, Consumers, Decomposers)
9	Marine Ecology (formation of oceans and seas and their properties)
10	Marine Ecology (classification of marine environment)
11	Marine Ecology (Ecological Classification of marine organisms)
12	Marine Ecology (Marine Production and Yield)
13	Fresh Water Ecology (Lentic Ecosystems)
14	Fresh Water Ecology (Lotic Ecosystems)
15	Final exam

General Capabilities
In general terms, knowledge about ecology of Terrestrial, Marine and Freshwater Ecosystems

Recommended or Required Reading
1. Gökmen, S. (ed.). 2011. Genel Ekoloji. Nobel Yayın, 475 s., Ankara.
2. Kocataş, A. 2002. Ekoloji "Çevre Biyolojisi". Ege Üniversitesi Basımevi, 564 s., İzmir.
3. Şişli, M.N. 1999. Çevre Bilim "Ekoloji". Gazi Kitabevi, 492 s., Ankara
4. Odum, E.P., Barrett, G.W. Ekoloji'nin Temel İlkeleri. Palme Yayıncılık, 598 s., Ankara.

Form of Assessment
Mid-term exam : 40%
Final exam : 60%
Projects :
Homework :

Course Code : 0804522  
 Course Name : Ecology I  
 Instructor : Prof. Dr. Ömer Faruk KAYA  
 Theoretical / Practical / Credits : 2 0 2  
 ECTS : 3

Course Description	Duration (hour)	Evaluation
Theoretical (hour/week)	2x15 = 30	Attendance
Guided Problem Solving		Active participation
Individual Work		
Evaluation of Assessments		Evaluation and discussion with coordinator and co-instructors
Term Project		
Mid-Term Exam	For the exam : 1 Individual work : 14	Closed book, written exam
Final Exam	For the exam : 1 Individual work : 24	Closed book, written exam
Quiz		
Research (internet/lib.)	20	Search from different sources
Discussion of Homework Problems		
Other		
Total Course Load (hour/year)	<b>90</b>	