

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

Course Name	Code	Semester	T+P	Credits	ECTS
Ecology II	0804624	6 <sup>th</sup> Year/Spring	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	To teach ecology of population, community and ecosystem
Course Outcomes	To learn basic features of ecology of population, community and ecosystem
Course Contents	Characteristics, dynamics and genetics of population, succession, energy flow and matter cycle in ecosystem

Weeks	Topics
1	Characteristics of population
2	Dynamics of population
3	Genetics of population
4	The Concept of community
5	Competition of intraspecific and interspecific
6	Habitat, biotope and ecological niche
7	Mid-term exam
8	Ecosystem development (Succession)
9	Climax
10	Energy flow in ecosystem
11	Matter cycle in ecosystem (Hydrological cycle)
12	Matter cycle in ecosystem (Biogeochemical cycles)
13	Matter cycle in ecosystem (Biogeochemical cycles)
14	Matter cycle in ecosystem (Biogeochemical cycles)
15	Final exam

**General Capabilities**

To understand the concepts of population, community, and ecosystem, energy flow and material cycles in ecosystem

**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 : 0804624  
 Course Name : Ecology II  
 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 : 2 4	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>	