

# PRINCIPLES OF ECOLOGY

1	Course Title:	PRINCIPLES OF ECOLOGY
2	Course Code:	BYL0519
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. HÜLYA ARSLAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Doç. Dr. Hülya ARSLAN U.Ü. Fen-Edebiyat Fak., Biyoloji Bölümü Görükle Kampüsü, BURSA Tel: 0224 2941799 arslanh@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The aim of the course is to make the students introduce the ecology. The goals are to teach the basic concepts and principles of ecology
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Explaining the definition of ecology and it's position in life science.
	2	Listing the main terms of ecology.
	3	Listing the rules of ecology.
	4	Explaining the relationship between organisms and climatic and edaphic factors.
	5	Explaining the relationship between organisms and biotic factors.
	6	Understanding the population term and their characteristics.
	7	Understanding the community term and their characteristics.
	8	Understanding the ecosystem term and their characteristics.
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	Definition, history and parts of ecology.	

2	Spatial and biological concepts of ecology.	
3	Law of the minimum, Shelford's law of the tolerance, optimum and limiting factor.	
4	Ecological interactions, ecological factors and classification of ecological factors.	
5	Climatic factors (light and temperature) and their effects on organisms.	
6	Climatic factors (humidity, precipitation and wind) and their effects on organisms.	
7	Edaphic factors and their effects on organisms.	
8	Repeating courses and midterm exam	
9	Biotic factors (competition, feeding, simbiozis, ) and their effects on organisms.	
10	Population ecology (structural properties of population).	
11	Population growth and population regulation.	
12	Community ecology: community concept and characteristics of the species.	
13	Structural and functional properties of communities.	
14	Components and functional properties of ecosystems.	

22	Textbooks, References and/or Other	E.P. ODUM, G.W. BARRET (Çeviri Ed. K, IŞIK). Ekolojinin		
Activites		Number	Duration (hour)	Total Work Load (hour)
23	Theoretical Assessment	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		11	2.00	22.00
Midterm Exam		1	40.00	
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Home work-project		0	0.00	
Field Studies		0	0.00	0.00
Midterm exams		1	20.00	20.00
Total		2	100.00	
Others		0	0.00	0.00
Final Exam		1	20.00	20.00
Total Work Load				90.00
Total work load/ 30 hr		100.00		3.00
ECTS Credit of the Course				3.00

Measurement and Evaluation Techniques Used in the Course

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0

ÖK4	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			