

## BIOLOGY III

1	Course Title:	BIOLOGY III
2	Course Code:	FEN3311
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	2.00
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. ŞİRİN İLKÖRÜCÜ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Prof. Dr. Şirin İlkörücü ilkorucu@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To analyze, to interpret the reflections of the basic theories and approaches on these subjects to science.
19	Contribution of the Course to Professional Development:	This course has an advanced level of theoretical and factual knowledge in the field, including a critical perspective. This course contributes to the ability to use the advanced knowledge acquired in the field of TYYÇ 6 level, to the ability to use the theoretical and applied knowledge, and to the learning competence to evaluate the advanced knowledge and skills acquired in the field with an approach.
20	Learning Outcomes:	
	1	Questioning and analyzing genetics and evolution related topics and concepts in science class
	2	Can interpret the relationship between genetic and evolution related facts and science.
	3	Follow the current events and developments related to genetics and evolution
	4	Evaluate the developments in biotechnology critically
	5	Can critically evaluate and classify different views on the theory of evolution
	6	Questioning and interpreting the historical development of the theory of evolution
	7	The emergence of life forms from simple creatures to mammals, can interpret their subjects
	8	
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	ntroduction	

<b>2</b>	Areas, importance and historical development of genetics and biotechnology; history of modern genetic science	
<b>3</b>	DNA replication, mutations	
<b>4</b>	Mendel's genetics and probability	
<b>5</b>	Multiple alleles, pedigree and hereditary inheritance	
<b>6</b>	Deviations from Mendel's heredity	
<b>7</b>	Gene linkaj	
<b>8</b>	Population genetics	
<b>9</b>	Migration and genetic drift	
<b>10</b>	Important scientists in the emergence of the evolutionary view	
<b>11</b>	Darwin's view of natural selection and variation	
<b>12</b>	Isolation and speciation	
<b>13</b>	History of life and Fossil Research	
<b>14</b>	Application fields of evolutionary biology	

Activities			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	2.00	28.00
Practicals/Labs			0	0.00	0.00
23	Self-study and preparation		7	1.00	7.00
Homeworks			0	0.00	0.00
Projects			0	0.00	0.00
	1	Midterm Exam	1	4.00	4.00
Field Studies			0	0.00	0.00
	1	Midterm exams	1	10.00	10.00
	0	Home work-project	0	0.00	0.00
Others			0	0.00	0.00
	1	Final Exam	1	15.00	15.00
	2	Total	2	100.00	100.00
Total Work Load					60.00
Continuation of Term (Year) Learning Activities to Success Grade					2.00
ECTS Credit of the Course					2.00

24	ECTS / WORK LOAD TABLE
----	------------------------

[illegible]

ÖK2	3	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1
ÖK3	4	1	1	3	4	1	1	1	1	1	5	1	1	1	1	1
ÖK4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK5	1	4	1	1	4	4	1	1	1	1	1	1	1	1	1	1
ÖK6	1	1	1	1	1	3	1	1	1	3	1	1	1	1	3	1
ÖK7	4	2	1	1	1	1	1	1	1	1	4	1	1	2	1	1
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			