

Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering  
**Genetic and Bioengineering Department**  
 2023-2024 Spring Semester

<b>Syllabus</b>	
<b>Code/Name</b>	GBM 106 / Biology II
<b>Type</b>	Required
<b>Credit/ECTS</b>	7/7
<b>Hour per Week</b>	3 (3+0+0)
<b>Level/Year</b>	Undergraduate/1
<b>Semester</b>	Spring
<b>Classroom</b>	D305
<b>Content</b>	This course discusses evolution, phylogeny, biodiversity, and ecology of prokaryotes and eukaryotic plants and animals.
<b>Prerequisites</b>	-----
<b>Textbooks</b>	<p><b>Primary</b>            Campbell Biology 11th edition text book (Urry, Cain, Wasserman, Minorsky, Reece (either hardback or e-text)</p> <p><b>Supplementary</b>            Text book and “Mastering Biology available as a package as follows: Campbell Biology book, 11th edition (Urry, Cain, Wasserman, Minorsky, Reece) hard back PLUS access to online “Mastering Biology” e-text access package card/code.</p>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>Given terms and facts pertaining to evolution, biodiversity, physiology, and ecology, students will be able to classify them correctly.</li> <li>Given phylogenetic relationships, students will be able to correctly interpret the level of organisms’ relatedness.</li> <li>Given real biological observations, students will be able to correctly implement the concepts of evolution and biodiversity.</li> <li>Given the descriptive characteristics of plants, students will be able to correctly identify distinguishing features of plants.</li> <li>Given the descriptive characteristics of animals, students will be able to correctly identify distinguishing features of animals in general.</li> </ul>
<b>Course Outcomes</b>	<p>In this course you will be able to:</p> <p>CO1 Discuss the contribution of disciplines such as Systematics and Taxonomy to the organization of living organisms.</p> <p>CO2 Identify Prokaryotic organisms and distinguish them from Eukaryotes depending on their cellular characteristics.</p> <p>CO3 List and explain the characteristics of the kingdom Protista and of the variety of organisms belonging to it.</p> <p>CO4 List and explain the characteristics of the Kingdom Fungi and of the organisms belonging to it.</p> <p>CO5 List and explain the characteristics of the kingdom Plantae and of the organisms belonging to it.</p> <p>CO6 List and explain the characteristics of the kingdom Animalia and of the organisms belonging to it.</p>

### Weekly Schedule of Topics

W	Topic
1	Classification of Living Organisms
2	Viruses, Bacteria and Archaea
3	The Protists

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4	The Fungi
5	Evolution and Diversity of Plants – Seedless Plants
6	Seed Plants
7	Evolution and Diversity of Animals
8	Animal Organization
9	Circulation
10	Immunity
11	Digestion and Nutrition
12	Respiration
13	Body Fluid Regulation and Excretion
14	Nervous System

<b>Professional Contribution</b>	To have knowledge that will allow working in companies or research laboratories working on biology, to be able to design research and projects on biology.
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**Contribution to Program Outcomes\***

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2	3	4	3	3	3	4	3	3	3	3
CO2	3	2	3	5	3	2	2	4	2	0	3
CO3	2	3	2	4	3	4	2	1	2	2	3
CO4	3	3	2	3	3	3	3	2	2	2	2
CO5	3	1	3	4	3	3	1	3	1	2	3
CO6	2	2	2	2	3	4	2	2	2	3	2

\* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

<b>Special Conditions</b>	<ul style="list-style-type: none"> <li>Students work in groups for project and presentations.</li> </ul>	
<b>Requirements</b>	Basic knowledge of Biology I	
<b>Course Policy</b>	<ul style="list-style-type: none"> <li>Be in the class on time.</li> <li>English should always be used to communicate with one another.</li> <li>At least <b>70%</b> attendance is required, otherwise a grade of <b>DZ</b> will be assigned.</li> </ul>	
<b>Cheating &amp; Plagiarism</b>	<ul style="list-style-type: none"> <li>Copying or letting someone copy your work on exams, assignments, or reports is cheating.</li> <li>Cutting and pasting text, figures and tables from web sources or any other electronic source is plagiarism.</li> <li>The consequence of academic dishonesty is to receive a grade of <b>FF</b> for the course.</li> </ul>	
<b>Evaluation</b>	Mid-term Exam	40%
	<u>Final Exam</u>	<u>60%</u>
	Total	100%
<b>Rubric</b>	-----	

**Instructor**

Name/Surname	Ayşe Erdoğan	Email	ayse.erdogan@alanya.edu.tr
Room	330	Office Hours	W 13:30-15:30

Prepared by Dr. Ayşe Erdoğan-17.10.2024