

Syllabus of BIO110 - Introduction to Modern Biology (*1st Section*)

Course Coordinator: Assoc. Prof. Dr. Pelin MUTLU

Semester: 2021-2022, Fall

Contact Hours: 3 hours of lecture per week,

Weekly Syllabus:

08.10.2021	The Chemical Context of Life Carbon and the Molecular Diversity of Life Water and Life
15.10.2021	Structure and Function of Large Biological Molecules
22.10.2021	A Tour into Cell Membrane Structure and Function
05.11.2021	Metabolism and Energy Cellular Respiration Photosynthesis
12.11.2021	Cell Cycle and Cell Division (Mitosis)
13.11.2021	First Midterm Exam
19.11.2021	Cell Division_Meiosis
26.11.2021	Chromosomal Basis of Inheritance Mendelian Genetics
29.11.2021	Homework Assignment
03.12.2021	The Molecular Basis of Inheritance DNA Replication
10.12.2021	From Gene to Protein
11.12.2021	Second Midterm Exam
17.12.2021	Regulation of Gene Expression DNA Technology
24.12.2021	Biotechnology Darwin Evolution Evolution of Populations
31.12.2021	Project Presentations
07.01.2022	Project Presentations

Assessment Methods:

	Type	Total Contribution
1	Midterms	20 % + 20 % = 40 %
2	Homework	15 %
3	Project	20 %
4	Final Exam	25 %

Recommended Textbooks:

- **CAMPBELL BIOLOGY**, Concepts and Connections; Jane B. Reece, Martha R. Taylor, Eric J. Simon and Jean L. Dickey
- **CONSEPTS OF GENETICS**, Klug Cummings