

İSTANBUL ŞEHİR UNIVERSITY
COLLEGE OF ENGINEERING AND NATURAL SCIENCES
2019-2020/Fall Semester
LIFE 102
(LIFE SCIENCES II - BIOLOGY)
SYLLABUS

Course Title	Code	Semester	Hour (T+P)	Credit	ECTS
Life Sciences II - Biology	LIFE 102	Fall	3	3	5
Prerequisites					
Language of Instruction	English				
Course Type (Required /elective)	Required				
Instructor /e-mail	Ayşe Ceren Çalikoğlu Koyuncu aysecerencalikoglu@sehir.edu.tr				
Assistants					
Goals	The main goal of this course is to provide the students with a basic knowledge of biology and to teach how to incorporate this knowledge into their lives.				
Learning Outcomes	<ol style="list-style-type: none"> 1. A different perspective to everyday's life 2. Gain basic understanding about genetics and inheritance 3. Have a general knowledge about biotechnological advances 4. Learn about biological diversity 				
Course Content	Chemistry of life, cells and metabolism, genetics, biotechnology, biological diversity, ecology				
Assessment Criteria	Assessment Components				
	Quizzes & assignments & participation			20 %	
	Midterm Exam			35 %	
	Final Exam			45 %	
	TOTAL			100 %	

An 80% of attendance is required.

No cell phones are allowed. Please, keep them in vibration mode only in case of emergency.

TIPS

- Be prepared for the class; overview the related chapters
- Don't write everything, just record the key concepts and ideas
- Use your own words; don't write everything word for word
- Use symbols, abbreviations, figures, and short sentences
- Go over your notes regularly

WEEKLY TOPICS AND PREPARATIONS		
Weeks	Topics	Initial studies
1.(25 Sep)	Introduction to Biology	Reading the related content
2.(2 Oct)	Chemistry of Life-Biomacromolecules	
3.(9 Oct)	Cells	
4.(16 Oct)	Cell Cycle and Cancer	
5.(23 Oct)	Genetics and Heredity	
6.(30 Oct)	Molecular Biology	
7.(6 Nov)	Cloning and Stem Cells	
8.(13 Nov)	MIDTERM EXAM	
9.(20 Nov)	Biotechnology	
10.(27 Nov)	Biological Diversity	
11.(4 Dec)	Viruses	
12.(11 Dec)	Microbiology – Prokaryotes	
13.(18 Dec)	Microbiology – Eukaryotes	
14.(25 Dec)	Animal Form and Function	
15.(2-16 Jan '20)	FINAL EXAM	

REFERENCES	
Main Textbook	Campbell Biology, Pearson Education Inc.
Secondary Textbooks	- Campbell Biology: Concepts & Connections, Pearson Education Inc. - LIFE - The Science of Biology, Sinauer Associates Inc.

ECTS / WORKING HOUR TABLE			
Activities	Number of Weeks	Duration (Hour)	Working Hours
Duration of the Course (Including Exams: 14 x Total Weekly Course Hour)	14	3	42
Extracurricular Working Hour (Preparatory Work, Review)	14	1	14
Assignments, Presentations, Internet Studies, etc.	5	2	10
Mid-term Exams	1	7	7
Final Exam	1	13	13
Working Hours in Total	13		86
ECTS Credit of the Course			5