## Biology

SCHOOL	ENVIRONMENT				
ACADEMIC UNIT	FOOD SCIENCE & TECHNOLOGY				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	FST102		SEMESTER	1	
COURSE TITLE	BIOLOGY				
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercise, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits			WEEKLY TEACHING HOURS		CREDITS
		Lectures	3		5
Total		3		5	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).					
COURSE TYPE General background, special background, specialised general knowledge, skills development	Specialised g	eneral knowled	ge		
PREREQUISITE COURSES.					
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No				
COURSE WEBSITE (URL)					

## LEARNING OUTCOMES

## Learning Outcomes

The course earning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The aim of Biology course is for students to develop an understanding of the basic concepts of living organisms such as interdependence of organisms, the molecular and cellular basis of certain characteristics, energy transfer in organisms and cell growth and heredity.

Upon successful completion of the course students will have knowledge to:

- identify and classify micro-organisms
- describe the metabolism of micro-organisms
- define the relationship between genetics and heredity
- explain the morphology and function of animals and plants
- develop the necessary background to understand the content of relevant courses in subsequent semesters

Conoral Compotences	
Taking into consideration the general competences that the degree-	holder must acquire (as these appear in the Diploma Supplement and appear below), at which
of the following does the course aim?	in the support of the cost of the support
Search for, analysis and synthesis of data and       Prince         information, with the use of the necessary technology       Reference         Adapting to new situations       Reference         Decision-making       Sh         Working independently       Cr         Team work       Pr         Working in an international environment	oject planning and management spect for difference and multiculturalism spect for the natural environment owing social, professional and ethical responsibility and sensitivity to gender issues iticism and self-criticism oduction of free, creative and inductive thinking  hers
• Search for, analysis and synthesis of data	and information, with the use of the necessary technology
Decision-making	
<ul> <li>Working independently</li> </ul>	
• Team work	
<ul> <li>Criticism and self-criticism</li> </ul>	
<ul> <li>Respect for the natural environment</li> </ul>	
<ul> <li>Production of free, creative and inductive</li> </ul>	e thinking
SYLLABUS  The chemistry of life  Chemical compounds in living organi Water and environment Carbon and the molecular diversity of Structure and function of large biolog  The cell  Cell structure & function Cell membrane structure & function Metabolism Cellular respiration - energy Photosynthesis Cell-cell communication Cell cycle Genetics Genetics Gene Inheritance - chromosomes From gene to protein Regulation of gene expression From gene to protein Biological populations' evolution Bacteria and Archaea Protists Fungi	sms of life gical molecules
Plant and animal structure and function	
Ecology	
TEACHING and LEARNING METHODS - EVALUATIO	)N 11

DELIVERY	In teaching class			
Face-to-face, Distance learning, etc.				
USE OF INFORMATION AND	Power point presentation, Whiteboard writing			
COMMUNICATIONS TECHNOLOGY				
Use of ICT in teaching, laboratory education,				
communication with students				
TEACHING METHODS	Activity	Semester workload		
The manner and methods of teaching are	Lectures	117		
described in detail.				
fieldwork, study and analysis of biblioaraphy.				
tutorials, placements, clinical practice, art	Total contact hours and			
workshop, interactive teaching, educational	training	117		
visits, project, essay writing, artistic creativity,	training			
The student's study hours for each learning				
activity are given as well as the hours of non-				
directed study according to the principles of the				
ECTS				
STUDENT PERFORMANCE EVALUATION	Language of evaluation: Greek			
Description of the evaluation procedure	Final written examination in theory and in laboratory			
L <mark>angu</mark> age o <mark>f eval</mark> uation, methods of	that includes:			
evaluation, summative or conclusive, multiple				
open-ended questionnaires, short- answer questions,				
work, essay/report, oral examination, public	Midterm and final exams (fill-in the blanks questions,			
presentation, laboratory work, clinical	short answer questions, multiple choice questions)			
examination of patient, art interpretation,				
ourier				
Sp <mark>ecif</mark> ically-defined evaluation criteria are				
given, and if and where they are accessible to				
students.				

1. CAMPBELL N., REECE J., Biology

2. Alberts B.,Bray D.,Hopkin K.,Johnson A.,Lewis J.,Raff M.,Roberts K.,Walter P. Molecular Biology of the Cell

Performance Statistics of the last 2years						
Grade (descending order)	ade absolute relative cending frequency %		sum of success rates per class			
BI	OLOGY (1st ti	me on 2020-2	21)			
10	11	13%	<mark>13%</mark>			
9	7	9%	22%			
8	16	20%	41%			
7	13	16%	57%			
6	35	43%	100%			
	82	100%				