



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Topics In Biology I							
Course Code		ÇS006		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To inform the students who are educated in the health field about the basic biology topics such as organic compounds, cell division, substance transition.							
Course Content		Distinction between viability – inanimate, organic and inorganic molecules that form the structure of living cells and organelles, substances through the membrane and metabolism, cell division (types, seen cells and varieties, etc.).							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Genetic (2003) William S. Klug & Michael R. Cummings (Trans. Prof. Cihan Öner), Palme Publishing
2	Basic Rules of Life: Volume.1 / Part.1 (2004) Ali Demirsoy, Meteksan
3	Biology (2000) William T. Keeton, James L. Gould & Carol Grant Gould (Trans. Prof. Ali Demirsoy, Prof. İsmail Türkan & Prof. Ertunç Gündüz) Palme publishing

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of Biology, related science branches and its working areas.
2	Theoretical	Differences between the live and lifeless.
3	Theoretical	Basic molecules involved in the structure of living things (inorganic).
4	Theoretical	Basic molecules involved in the structure of living things (organic).
5	Theoretical	Basic molecules involved in the structure of living things (organic).
6	Theoretical	Cell theory, cell variety and structure of the cell.
7	Theoretical	Midterm
8	Theoretical	Structure of the cell membrane and substances through the membrane.
9	Theoretical	Endoplasmic reticulum, Lysosome and Golgi apparatus.
10	Theoretical	Centrosome, Ribosome, Vacuole, Peroxisome.
11	Theoretical	Mitochondria, plastids and endosymbiosis theory.
12	Theoretical	The cell nucleus and its' role in the cell division, and cell cycle.
13	Theoretical	Bacterial Asexual reproduction (Binary fission) and mitosis.
14	Theoretical	Meiosis cell division.
15	Theoretical	Metabolism and Homeostasis.

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	3	5	2	21
Midterm Examination	1	10	1	11
Final Examination	1	14	1	15
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Knows the molecules that make up the structure of living things.
2	Knows the structure, division, feature and various of the cells.
3	Knows the current basic rules of the substance transition in the cell membrane and the metabolism.
4	Knows the basic Latin concepts.
5	Knows and defines to the cell divisions.

**Programme Outcomes (First and Emergency Aid )**

1	To be able to be aware of their professional authorities and responsibilities.
2	To be able to use the principles of individual and organizational communication skills.
3	To be able to define the emergency medical services and the pre-hospital emergency medical system devices used in Turkey and the world .
4	To be able to perform physical assessment of the patient and primary and secondary inspection.
5	To be able to apply the methods of handling and transportation of the patient
6	To be able to recognize the rules of the general approach to trauma patients and to be able to be capable of handling and maintenance of trauma equipment.
7	To be able to recognize emergency vehicles' mechanical and technical equipment and to be able to drive emergency vehicles.
8	To be able to identify the principles of pre-hospital emergency care in cases of environmental emergencies.
9	To be able to identify the principles of pre-hospital emergency care in medical emergencies.
10	To be able to analyze the ECG rhythm and apply the principles of pre-hospital emergency care for rhythm Disorders.
11	To be able to recognize and apply the pre-hospital emergency care drugs and fluids.
12	To be able to identify basic life support applications, Advanced Life Support applications and Advanced air way applications.
13	To be able to recognize the principles of pre-hospital emergency during disasters.
14	To be able to protect and maintain the highest level of physical and mental health.
15	To be able to recognize human anatomy and physiology.
16	To be able to develop good communication and human relations skills with colloques and patients.
17	To be able to apply Infection Control Methods and check infectional situations of emergency vehicles and equipment, ensure the conditions of asepsis-antisepsis and pre-hospital emergency care with Infectious Diseases.
18	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P1	1	1	1	1	1
P2	1	1	1	1	1
P3	2	2	2	2	2
P4	2	2	2	2	2
P5	1	1	1	1	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	1	1	1	1	1
P11	1	1	1	1	1
P12	1	1	1	1	1
P13	1	1	1	1	1
P14	3	3	3	3	3
P15	5	5	5	5	5
P16	3	3	3	3	3
P17	3	3	3	3	3

