

# TOROS ÜNİVERSİTESİ

Vocational School  
Medical Imaging Techniques

## Course Information

MEDICAL BIOLOGY					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TGT109	Fall	2	0	2	3

<b>Prerequisites and co-requisites</b>	
<b>Language of instruction</b>	Turkish
<b>Type</b>	Required
<b>Level of Course</b>	Associate
<b>Lecturer</b>	Lec. Harika TOPAL ÖNAL
<b>Mode of Delivery</b>	Face to Face
<b>Suggested Subject</b>	
<b>Professional practise ( internship )</b>	None
<b>Objectives of the Course</b>	to learn the physical and chemical structure of organelles and cell property, basic genetic mechanisms, DNA, chromosome structure.
<b>Contents of the Course</b>	Structure of the cell, cell metabolism and its anomalies, embryonic development in human, medically important prokaryotic and eukaryotic species, tissues and organ systems

## Learning Outcomes of Course

#	Learning Outcomes
1	Understands the general characteristics of the cell.
2	Sorts links to relations to the cell with environment
3	Defines the structure of DNA and chromosome by using the basic genetic concepts
4	Understands Basic Genetic Mechanisms
5	Sort the differences between the structure of DNA and RNA.

## Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Description of biology and beginning of the life	Presentation, Discussion, question-answer
2	Cell Science	Presentation, Discussion, question-answer
3	Cytoplasm	Presentation, Discussion, question-answer
4	Nucleus	Presentation, Discussion, question-answer
5	Physical structure of the cell, and Transport Events in the cell membrane	Presentation, Discussion, question-answer
6	Chemical structure of the cell	Presentation, Discussion, question-answer
7	Cell Metabolism	Presentation, Discussion, question-answer
8	Mid term exam	written examination
9	Cell Metabolism	Presentation, Discussion, question-answer
10	Cell Signaling Systems	Presentation, Discussion, question-answer
11	Cell Division and Cellular Aging	Presentation, Discussion, question-answer

12	Basic genetic mechanisms: DNA replication and repair	Presentation, Discussion, question-answer
13	Basic genetic mechanisms: DNA replication and repair	Presentation, Discussion, question-answer
14	Apoptosis and necrosis	Presentation, Discussion, question-answer
15	Apoptosis and necrosis	Presentation, Discussion, question-answer
16	Final Exam	Written examination

## Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Tıbbi Biyoloji. Başaran A. 1999. Motif Matbaacılık, İstanbul		
2	Medical Cell Biology: Made Memorable. 1st Eds.		

## Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

## Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Understands the general characteristics of the cell.	8	1,2
2	Sorts links to relations to the cell with environment	10	1,2
3	Defines the structure of DNA and chromosome by using the basic genetic concepts	2	1,2
4	Understands Basic Genetic Mechanisms	6	1,2
5	Sort the differences between the structure of DNA and RNA.	6	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

## Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	0	0	0
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	2	5	10
5	Document/Information Listing	3	5	15
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	5	5
8	Midterm Exam	0	0	0
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	2	2
16	Final Exam	0	0	0
				<b>60</b>

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