

TOROS ÜNİVERSİTESİ

Vocational School
Medical Laboratory Techniques

Course Information

GENERAL BIOCHEMISTRY					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TLT111	Fall	2	2	3	4

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Cem YALAZA
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Aims to teach basic biochemical concepts about Health Sciences
Contents of the Course	Water and buffer systems, Carbohydrates, Amino acids and proteins, Lipids, Enzymes, Vitamins and coenzymes, Principle concepts in Metabolism and Hormones, Carbohydrate metabolism, Amino acid and Protein Metabolism, Lipid Metabolism, Carbohydrate measurement methods, Protein measurement methods , Lipid measurement methods , Enzyme Activity measurement methods

Learning Outcomes of Course

#	Learning Outcomes
1	Knows the structures of biomolecules
2	Comprehends the role of biomolecules in metabolic processes.
3	Knows the principles of measurement methods of biomolecules.
4	Uses acquired theoretical knowledge in applications of biomolecules measurements.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Water and buffer systems	Lecture Question and Answer Other
2	Amino acids and proteins	Lecture Question and Answer Other
3	Enzymes, Vitamins and coenzymes,	Lecture Question and Answer Other
4	Principle concepts in Metabolism and Hormones	Lecture Question and Answer Other
5	Carbohydrates	Lecture Question and Answer Other
6	Lipids	Lecture Question and Answer Other
7	Preparation for the exam	
8	Midterm exam	
9	Amino acid and Protein Metabolism	Lecture Question and Answer Other
10	Protein measurement methods	Lecture Question and Answer Other
11	Carbohydrate metabolism	Lecture Question and Answer Other
12	Carbohydrate measurement methods	Lecture Question and Answer Other

13	Lipid Metabolism	Lecture Question and Answer Other
14	Lipid measurement methods	Lecture Question and Answer Other
15	Preparation for the exam	
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Course presentation documents		

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	Knows the structures of biomolecules	1	1,2
2	Comprehends the role of biomolecules in metabolic processes.	1,2	1,2
3	Knows the principles of measurement methods of biomolecules.	1,7	1,2
4	Uses acquired theoretical knowledge in applications of biomolecules measurements.	1	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	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	3	3
8	Midterm Exam	1	1	1
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	3	3
16	Final Exam	1	1	1
				120