



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Lipoproteins and Metabolism							
Course Code		VBY536		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	147 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Paths taken by the liver lipids, plasma liporpteinlerinin synthesis, the synthesis of free fatty acids, transport of the body lipids, atherosclerosis, and this information will be available to give information about.							
Course Content		Paths taken by the liver lipids, the synthesis of plasma lipoproteins, free fatty acids synthesis and transport of body lipids, atherosclerosis							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Lec. Gamze Sevri EKREN AŞICI							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Quiz	2	10
Assignment	1	10

### Recommended or Required Reading

1	Biyokimya Güneş Tıp Kitapevi
2	Biyokimya Leninger
3	Biyokimya Lipinkot

Week	Weekly Detailed Course Contents	
1	Theoretical	Lipids, definition, classification, general information
2	Theoretical	Paths taken by lipids
3	Theoretical	Plasma lipoproteins
4	Theoretical	Chylomicrons, VLDL, LDL, HDL
5	Theoretical	Fatty acid synthesis
6	Intermediate Exam	Midterm exam
7	Theoretical	Synthesis of lipoproteins
8	Theoretical	Lipoprotein metabolism
9	Theoretical	Apolipoproteins and their receptors
10	Intermediate Exam	Midterm exam
11	Theoretical	Plasma Lipoprotein tests
12	Theoretical	Plasma Lipoprotein tests
13	Theoretical	Atherosclerosis
14	Theoretical	Discussion
15	Theoretical	Discussion
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	25	0	25
Quiz	2	15	1	32
Midterm Examination	1	25	1	26



Final Examination	1	35	1	36
Total Workload (Hours)				147
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To be able to comprehend general information about lipoproteins
2	To be able to comprehend information on the synthesis and metabolism of lipoprotein
3	To be able to comprehend information about tests and the clinical significance of lipoprotein
4	To be able to comprehend diseases of lipid and lipoprotein metabolism
5	To be able to use the knowledge learned

### Programme Outcomes (Biochemistry (Veterinary Medicine) Master)

1	To be able to tell and describe the interdisciplinary interaction with the associated fields.
2	To be able to express original ideas using his/her higher education knowledge theoretically and practically information and to be able to create original definitions, products, methods improving and questioning these ideas.
3	To be able to manage a free research according to scientific and methodological methods and be able to hypothetically and practically about his/her own field.
4	To be able to compose and interpret the information from different disciplines, and create solution suggestions and scientific information which can contribute to the solution process.
5	To be able to involve in professional organizations and institutions related with the educational background.
6	To be able to take responsibility for individual and group work, and do the assignments in line with the skills.
7	To be able to communicate with the professionals out of the field when it is necessary, and contribute to the solution as a team member.
8	To be able to tell about the production and publishing methods of scientific information.
9	To be able to design the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education.
10	To be able to use technological devices both for professional and social purposes.
11	To be able to compose and interpret any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research.
12	To be able to define the environmental health rules and apply them for prevention.
13	To be able to apply the knowledge gained in professional level with the awareness of the needs of the region and the country, and develop a defense capability.
14	To be able to conceptualize the phenomena and the events related with the field; study scientific methods and techniques, interpret results; analyze and hypothesize methods in accordance with the results and design solution or treatment alternatives addressing the problems.
15	To be able to interpret the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and use when needed.

### 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					5
P2	5	5	5		
P3	5	5	5		
P4	5	5	5	5	
P7				5	
P10				5	
P11	4	4	4		
P15	4	4	4		4

