

ECTS COURSE DESCRIPTION FORM

PART I (Senate Approval)

Offering School	Antalya Bilim University Faculty of Health Sciences			Offering Department	Nursing		
Program(s) Offered to	Nursing	<input checked="" type="checkbox"/>			<input type="checkbox"/>		
		<input type="checkbox"/>			<input type="checkbox"/>		
		<input type="checkbox"/>			<input type="checkbox"/>		
Course Name	Biochemistry			Course Code	HEM225		
Level of Course	Licence			Type of Course	Compulsory		
Language of Instruction	Turkish			ECTS Credits	3		
Hours per Week	Lecture:	2	Practical:	0	Studio:	0	
	Laboratory:	0	Recitation:	0	Other:		
Pre-requisites	None			Co-requisites			
Registration Restriction	None			Grading Mode			
Educational Objective	The aim of this course is; to enable the students to learn basic information about the structure of biomolecules such as protein, carbohydrate, lipid and nucleic acid, to understand how the metabolism of these molecules occurs, how metabolic integrity between molecules is ensured and to be able to apply it in the field of nursing.						
Course Description							
Learning Outcomes	LO1	Can explain the structures of molecules such as protein, carbohydrate, lipid and nucleic acid.					
	LO2	Can explain the metabolism of biomolecules such as protein, carbohydrate, lipid and nucleic acid.					
	LO3	Can describe changes in chemical reactions at the cellular level in pathological conditions.					
	LO4	Can gains knowledge about the composition of the body and the main classes of molecules found in the body. He/she learns that the basic structures of the human body are carbohydrates, lipids, proteins, water and minerals, and learns the structures, functions and metabolisms of these molecules.					

PART II (Faculty Board Approval)

		Program Outcomes	LO1	LO2	LO3	LO4	LO5	LO6	LO7
Basic Outcomes (University-wide)	PO1	Ability to communicate effectively with oral, written and visual methods, report writing and presentation.	✓	✓	✓	✓			
	PO2	Ability to work effectively both individually and in disciplinary and multi-disciplinary teams.	✓	✓	✓	✓			
	PO3	Awareness of the necessity of lifelong learning and the ability to access information, to follow developments in science and technology, and to constantly renew itself.			✓	✓			
	PO4	Information about project management, risk management, innovation and change management, entrepreneurship, and sustainable development.	✓		✓	✓			
	PO5	Awareness about sectors and ability to prepare business plans.			✓				
	PO6	Awareness of professional and ethical responsibility and acting in accordance with ethical principles.	✓	✓	✓	✓			
Faculty Specific Outcomes	PO7	To have universal thoughts and values		✓	✓				
	PO8	To be committed to academic and ethical values,		✓	✓	✓			
	PO9	To provide qualified education, research and consultancy services at universal information and technology standards	✓	✓	✓	✓			
	PO10	To be open to new goals, strategies and action plans that will take undergraduate and graduate education / training programs and scientific studies further	✓	✓	✓				
	PO11	To support, maintain and increase interdisciplinary / multidisciplinary studies in the services provided.		✓					
	PO12	To contribute and develop health policies for the benefit of the country.			✓	✓			
Program Specific Outcomes	PO13	Using theoretical, evidence-based and applied knowledge in the field of nursing, with a holistic and systematic approach to the individual, family and society; Gives culturally sensitive nursing care, evaluates and records the effect of care.				✓			
	PO14	It determines the health education needs of the individual, family and society, and provides training and consultancy in this direction.							
	PO15	Uses problem solving, decision making, critical thinking and leadership skills in the field of nursing.							
	PO16	Communicates by expressing her opinions, having the ability to work individually and make independent decisions.	✓	✓		✓			
	PO17	Respects human rights and dignity by acting in accordance with the relevant legislation, professional values and ethical principles in nursing education, practice, research and management	✓			✓			
	PO18	It works in cooperation with disciplinary and interdisciplinary team members.	✓	✓	✓	✓			
	PO19	Uses information and care technologies in nursing education, practice, research and management.	✓		✓	✓			
	PO20	In line with the lifelong learning approach, he / she reaches scientific and current information specific to the field of nursing, evaluates the accuracy, validity and reliability of the information.		✓					
	PO21	It fulfills the responsibility of producing scientific knowledge specific to nursing by participating in all kinds of research, projects and activities that will contribute to individual and professional development.		✓		✓			
	PO22	Uses at least one foreign language at a level to reach scientific information and communicate effectively.			✓				

PART III (Department Board Approval)

Course Contents, Contribution of Course Contents to Learning Outcomes, and Methods for Assessing Learning of Course Contents	Subject	Week	Details of Course Contents	LO1	LO2	LO3	LO4	LO5	LO6	LO7
	S1	1	Introduction to biochemistry	A1/A4	A1/A4	A1/A4	A1/A4			
	S2	2	Water-acid-base buffer solutions	A1/A4	A1/A4	A1/A4	A1/A4			
	S3	3	Basic biomolecules in cells and tissues, biochemical functions of the cell	A1/A4	A1/A4	A1/A4	A1/A4			
	S4	4	Blood Proteins	A1/A4	A1/A4	A1/A4	A1/A4			
	S5	5	Proteins: structure and functions	A1/A4	A1/A4	A1/A4	A1/A4			
	S6	6	Blood Proteins	A1/A4	A1/A4	A1/A4	A1/A4			
	S7	7	Midterm exam							
	S8	8	Carbohydrates: structure and functions	A1	A1	A1	A1			
	S9	9	Lipids: structure and functions	A1	A1	A1	A1			
	S10	10	Nucleic Acids	A1	A1	A1	A1			
	S11	11	Porphyrins	A1	A1	A1	A1			
	S12	12	Vitamins	A1	A1	A1	A1			
	S13	13	Enzymes	A1	A1	A1	A1			
	S14	14	Hormones	A1	A1	A1	A1			
	S15	15	Final exam	A1	A1	A1	A1			

Assessment Methods, Weights in Grading Scheme, Implementation and Make-Up Rules	No	Type	Weight	Implementation Rule	Make-Up Rule
	A1	Exam-Final Jury, Final Project	60%	Exams are held with closed book and notes.	Students who cannot take the final exam due to an excuse and whose excuse is accepted by the Unit Board take the make-up exam on the date determined by the Unit.
	A2	Quiz			
	A3	Homework			
	A4	Midterm	40%	All product exams that have been processed until the midterm exam period are held.	
	A5	Project			
	A6	Presentation			
	A7	Attendance/Interaction			
	A8	Field Work			
	A9	Others			
TOTAL			100%		

Evidence of Achievement of Learning Outcomes	<input type="checkbox"/>		<input type="checkbox"/>	
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Method for Determining Letter Grade	Direct Conversion System ("DDS" in the regulation.)			Relative Evaluation ("BDS" in the regulation.)			
	A different method/system, not listed above, determined by the Faculty Member / Instructor (This method is explained below)						<input type="checkbox"/>
	<u>Success Grade Range</u>	<u>Letter Success Note</u>	<u>Success Coefficient</u>	<u>Success Assessment</u>			
	95-100	A+	4,00	Successful			
85-94	A-	3,70	Successful				
80-84	B+	3,30	Successful				
75-79	B	3,00	Successful				
65-74	B-	2,70	Successful				
60-64	C+	2,30	Successful				
55-59	C	2,00	Successful				
50-54	C-	1,70	Passes				
45-49	D+	1,30	Unsuccessful				
40-44	D	1,00	Unsuccessful				
0-39	F	0	Unsuccessful				

Teaching Methods, Student Work Load	No	Method	Explanation	Total Hours			
	Time expected to be allocated by instructor						
	1	Lecture	Lesson topics are explained by writing on the board or with a computer presentation. Sample questions are solved during the lesson.	28			
	2	Interactive Lecture					
	3	Recitation					
	4	Laboratory					
	5	Practical					
	6	Field Work					
	Time expected to be allocated by student						
	7	Project					
	8	Homework	14 week x 1 hour	14			
	9	Pre-class Learning of Course Material	New topics are learned before being taught in the classroom.	14			
	10	Review of Course Material	Topics are repeated to prepare for exams and assignments.	28			
11	Studio						
12	Office Hour	1 hour per week is reserved for students' questions.					
Calculated ECTS Credit(s)		Max.	3	Min.	2	Grand Total	84

IV. PART

Instructor	Name Surname	
	E-mail	
	Phone Number	
	Office Number	
	Office Hours	
Course Materials	Mandatory	
	Recommended	Keha EE, Küfrevioğlu İ. Biyokimya, Aktif Yayinevi, 2020
		Berg JM, Tymoczko JL, Stryer L. Biyokimya, Palme Yayıncılık, 2014
		Champe PC, Harvey RA, Ferrier DR. Lippincott's Illustrated Reviews:Biochemistry, 3rd Ed. Kluwer
Other	Scholastic Honesty	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. It is explained in Article 25 of the Directive on Associate and Undergraduate Programs of Antalya Bilim University.
	Students with Disabilities	Reasonable accommodations will be made for students with verifiable disabilities.
	Safety Issues	
	Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.

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