



Kafkas Üniversitesi
GRADUATE SCHOOL OF HEALTH SCIENCES
Department of Biochemistry
Tıbbi Biyokimya (YL) (Tezli)

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
SZR 101	SCIENTIFIC RESEARCH METHODS	2+2+0	Elective	6
TBİ 501	Organic and Biophysical Chemistry	2+0+0	Elective	6
TBİ 503	Biochemistry Laboratory Techniques I	2+0+0	Elective	6
TBİ 505	Structure of Carbohydrates	2+0+0	Elective	6
TBİ 509	Enzymes and Coenzymes	1+0+0	Elective	3
TBİ 511	Free Radicals and Antioxidant System	1+0+0	Elective	3
TBİ 513	Acute Phase Proteins	1+0+0	Elective	3
TBİ 515	Functions and Metabolisms of Trace Elements	1+0+0	Elective	3
TBİ 517	Nutrition Biochemistry	1+0+0	Elective	3
TBİ 519	Use of Experimental Animals in Biochemistry	1+1+0	Elective	5
TBİ 521	Chemical Properties and Metabolic Importance of Water	1+0+0	Elective	3
TBİ 523	Basic Cellular Structures	1+0+0	Elective	3
TBİ 525	Cell Physiology	2+0+0	Elective	6
TBİ 701	SEMİNAR	0+1+0	Elective	0
Total ECTS				56

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
TBİ 504	Biochemistry Laboratory Techniques II	2+1+0	Elective	8
TBİ 506	Structure of Proteins	2+0+0	Elective	6
TBİ 507	Structure of Lipids	2+0+0	Elective	6
TBİ 508	Vitamins	1+0+0	Elective	3
TBİ 510	Hormones and Mechanisms of Action	1+0+0	Elective	3
TBİ 512	Tissue Biochemistry I	1+0+0	Elective	3
TBİ 514	Energy Metabolism	1+0+0	Elective	3
TBİ 516	Aging Biochemistry	1+0+0	Elective	3
TBİ 518	Cancer Biochemistry	2+0+0	Elective	6
TBİ 520	Apoptosis	1+0+0	Elective	3
TBİ 522	Molecular Physiology	2+0+0	Elective	6
TBİ 524	Biochemical Calculations and Solution Preparation	2+2+0	Elective	9
Total ECTS				59

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
TBİ 702	EXPERTISE FIELD COURSE	0+0+0	Elective	0
Total ECTS				0

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
TBİ 703	THESIS	0+0+0	Elective	30
Total ECTS				30