



Bachelor's Degree in Biology

Faculty Of Arts And Sciences

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Course Structure Diagram

First Semester		Theo.	Prac	Credits	ECTS
<u>MATH 113</u>	CALCULUS I	4	2	5	7
<u>CHEM 105</u>	GENERAL CHEMISTRY I	3	2	4	9
<u>BIOL 103</u>	ORIENTATIONS	1	1	1	4
<u>BIOL 101</u>	GENERAL BIOLOGY I	3	2	4	8
<u>APHR 101</u>	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2	0	2	2
		13	7	16	30

Second Semester		Theo.	Prac	Credits	ECTS
<u>MATH 114</u>	CALCULUS II	4	0	4	7
<u>CHEM 106</u>	GENERAL CHEMISTRY II	3	2	4	9
<u>CENG 103</u>	FUNDAMENTALS OF COMPUTER PROGRAMMING I	3	2	4	6
<u>BIOL 104</u>	BIODIVERSITY	3	0	3	3
<u>BIOL 102</u>	GENERAL BIOLOGY II	3	2	4	4
<u>APHR 102</u>	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2	0	2	2
		18	6	21	31

Third Semester		Theo.	Prac	Credits	ECTS
<u>TURK 101</u>	TURKISH LANGUAGE I	2	0	2	2
<u>PHYS 103</u>	GENERAL PHYSICS I	3	2	4	7
<u>BIOL 251</u>	GENERAL MICROBIOLOGY LAB. I	0	2	1	1
<u>BIOL 203</u>	GENERAL ECOLOGY	3	0	3	8
<u>BIOL 201</u>	GENERAL MICROBIOLOGY I	3	0	3	8
XXX xxx	NON-TECHNICAL ELECTIVE	3	0	3	4
		14	4	16	30

Fourth Semester		Theo.	Prac	Credits	ECTS
<u>TURK 102</u>	TURKISH LANGUAGE II	2	0	2	2
<u>PHYS 104</u>	GENERAL PHYSICS II	3	2	4	7
<u>CHEM 207</u>	INT. TO ORGANIC CHEMISTRY	3	0	3	7
<u>BIOL 254</u>	CELL BIOLOGY LABORATORY	0	2	1	1
<u>BIOL 252</u>	GENERAL MICROBIOLOGY LAB. II	0	2	1	1
<u>BIOL 204</u>	CELL BIOLOGY	3	0	3	4
<u>BIOL 202</u>	GENERAL MICROBIOLOGY II	3	0	3	4
XXX xxx	NON-TECHNICAL ELECTIVE	3	0	3	4
		17	6	20	30

Fifth Semester		Theo.	Prac	Credits	ECTS
<u>BIOL 357</u>	MOLECULAR BIOLOGY LABORATORY	0	4	2	4
<u>BIOL 355</u>	BIOCHEMISTRY LABORATORY I	0	2	1	2
<u>BIOL 353</u>	PHYSIOLOGY LABORATORY I	0	2	1	2
<u>BIOL 351</u>	GENETICS LABORATORY	0	2	1	2
<u>BIOL 307</u>	MOLECULAR BIOLOGY	3	0	3	5
<u>BIOL 305</u>	BIOCHEMISTRY I	3	0	3	5
<u>BIOL 303</u>	PHYSIOLOGY I	3	0	3	5
<u>BIOL 301</u>	GENETICS	3	0	3	5
		12	10	17	30

Sixth Semester		Theo.	Prac	Credits	ECTS
<u>BIOL 356</u>	BIOCHEMISTRY LABORATORY II	0	2	1	2
<u>BIOL 354</u>	PHYSIOLOGY LABORATORY II	0	2	1	2
<u>BIOL 352</u>	MOLECULAR GENETICS LABORATORY	0	2	1	2
<u>BIOL 306</u>	BIOCHEMISTRY II	3	0	3	8
<u>BIOL 304</u>	PHYSIOLOGY II	3	0	3	8
<u>BIOL 302</u>	MOLECULAR GENETICS	3	0	3	8
		9	6	12	30

Seventh Semester		Theo.	Prac	Credits	ECTS
XXX xxx	NON-TECHNICAL ELECTIVE	3	0	3	4
BIOL xxx	TECHNICAL ELECTIVE	3	0	3	8
XXX xxx	TECHNICAL ELECTIVE	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE	3	0	3	5

BIOL xxx	TECHNICAL ELECTIVE	3	0	3	8
		15	0	15	30
Eight Semester		Theo.	Prac	Credits	ECTS
XXX xxx	NON-TECHNICAL ELECTIVE	3	0	3	4
BIOL xxx	TECHNICAL ELECTIVE	3	0	3	8
XXX xxx	TECHNICAL ELECTIVE	3	0	3	5
XXX xxx	TECHNICAL ELECTIVE	3	0	3	5
BIOL xxx	TECHNICAL ELECTIVE	3	0	3	8
		15	0	15	30

Total Credits Required in Degree Program: 132 / Total ECTS Credits: 241

INFORMATION: All of the following elective courses aren't opened each semester. Please take information about potential open courses from the head of department.

Elective Courses

TECHNICAL ELECTIVES (3+0) 3		Theo.	Prac	Credits	ECTS
<u>BIOL 401</u>	TOXICOLOGY	3	0	3	8
<u>BIOL 402</u>	SUMMER TRAINING AND PRESENTATION	3	0	3	8
<u>BIOL 403</u>	MEDICAL MICROBIOLOGY	3	0	3	6
<u>BIOL 404</u>	IMMUNOLOGY	3	0	3	7
<u>BIOL 405</u>	VIROLOGY	3	0	3	6
BIOL 406	HISTOLOGY AND EMBRYOLOGY	3	0	3	6
<u>BIOL 407</u>	MICROBIAL GENETICS	3	0	3	6
<u>BIOL 408</u>	CANCER BIOLOGY	3	0	3	6
<u>BIOL 409</u>	SPECIAL TOPICS IN MOLECULAR BIOLOGY	3	0	3	6
<u>BIOL 410</u>	FOOD MICROBIOLOGY	3	0	3	6
<u>BIOL 411</u>	BIOSTATISTICS	3	0	3	6
<u>BIOL 412</u>	IMMUNITY TO MICROBIAL AGENTS	3	0	3	6
BIOL 413	POPULATION GENETICS AND EVOLUTION	3	0	3	8
BIOL 414	PLANT BIOTECHNOLOGY	3	0	3	6
<u>BIOL 415</u>	PLANT BIOLOGY	3	0	3	6
<u>BIOL 416</u>	EXPERIMENTAL DESIGN AND DATA ANALYSIS FOR BIOLOGISTS	3	0	3	6
<u>BIOL 417</u>	MUSHROOMS & POISONING	3	0	3	6
<u>BIOL 418</u>	BIOTECHNOLOGY & GENETIC ENGINEERING	3	0	3	6
<u>BIOL 419</u>	BIOINFORMATICS	3	0	3	7
BIOL 420	ETHICAL ISSUES IN BIOTECHNOLOGY	3	0	3	6
<u>BIOL 421</u>	FUNGAL BIOLOGY	3	0	3	6
BIOL 422	DEVELOPMENTAL BIOLOGY	3	0	3	8
BIOL 423	CLINICAL IMMUNOLOGY	3	0	3	8
<u>BIOL 424</u>	NEUROBIOLOGY	3	0	3	8
BIOL 425	GENETICALLY MODIFIED ORGANISMS	3	0	3	8
BIOL 426	BIOMIMICRY	3	0	3	8
BIOL 427	FORENSIC BIOLOGY	3	0	3	8
BIOL 428	PRINCIPLES OF LABORATORY ANIMAL SCIENCE	3	0	3	8
<u>BIOL 429</u>	PLANT ECOLOGY	3	0	3	8
<u>BIOL 430</u>	EDUCATION TECHNIQUES IN BIOLOGY	3	0	2	8
<u>CENG 201</u>	DATA STRUCTURES	3	0	3	5
<u>CENG 203</u>	DIGITAL SYSTEMS	3	2	4	6
<u>CENG 204</u>	PROGRAMMING LANGUAGES	3	0	3	6
<u>CENG 217</u>	OBJECT ORIENTED PROGRAMMING	3	0	3	7
<u>CENG 252</u>	COMPUTER ORGANIZATION	3	0	3	7
<u>CENG 304</u>	AUTOMATA THEORY AND FORMAL LANGUAGES	3	0	3	5
<u>CENG 305</u>	ANALYSIS OF ALGORITHMS	3	0	3	8
<u>CENG 310</u>	WEB PROGRAMMING	3	0	3	7
<u>CENG 341</u>	OPERATING SYSTEMS	3	0	3	8
<u>CENG 351</u>	DATABASE MANAGEMENT SYSTEMS	3	0	3	7
<u>CENG 362</u>	COMPUTER NETWORKS	3	2	4	8
<u>CENG 401</u>	SOFTWARE ENGINEERING	3	0	3	5
<u>CENG 410</u>	INTRO. TO DESIGN PATTERNS & FRAMEWORKS	3	0	3	5
<u>CENG 453</u>	INTRODUCTION TO E-BUSINESS/E-COMMERCE	3	0	3	5
<u>CENG 454</u>	INTRO. TO EXTENSIBLE MARKUP LANGUAGE (XML)	3	0	3	5
<u>CENG 456</u>	MULTIMEDIA SYSTEMS	3	0	3	5
<u>CENG 464</u>	DISTRIBUTED SYSTEMS	3	0	3	5
<u>CENG 465</u>	MOBILE AND WIRELESS NETWORKING	3	0	3	5
<u>CENG 471</u>	SPECIAL TOPICS IN COMPUTER ENGINEERING I	3	0	3	5
<u>CENG 482</u>	NETWORK SECURITY	3	0	3	5
<u>CENG 484</u>	EMBEDDED SYSTEMS	3	0	3	5
<u>CENG 491</u>	INTRO. TO NEURAL NETWORKS	3	0	3	5
<u>CENG 492</u>	INTRODUCTION TO PATTERN RECOGNITION	3	0	3	5
<u>CENG 498</u>	SENIOR DESIGN PROJECT II	0	6	3	8
<u>GEO 321</u>	BIOGEOGRAPHY	3	0	3	5
<u>GEO 322</u>	NATURAL HAZARDS	3	0	3	4
<u>GEO 324</u>	HYDROLOGY	3	0	3	4
<u>GEO 342</u>	GLOBAL CLIMATE CHANGE	3	0	3	5

<u>GEO 441</u>	ENVIRONMENTAL PROBLEMS IN TURKEY	3	0	3	5
<u>ENVE 200</u>	SEMINAR AND TECHNICAL TRIP	0	2	1	1
<u>ENVE 203</u>	ENVIRONMENTAL CHEMISTRY I	2	2	3	5
<u>ENVE 204</u>	ENVIRONMENTAL CHEMISTRY II	2	2	3	5
<u>ENVE 210</u>	MATERIALS SCIENCE IN ENVIRONMENTAL ENGINEERING	3	0	3	5
<u>ENVE 212</u>	ENVIRONMENTAL ECOLOGY	3	0	3	5
<u>ENVE 301</u>	BIOLOGICAL PROCESSES	3	0	3	5
<u>ENVE 304</u>	UNIT OPERATIONS AND PROCESSES OF WASTE WATER TREATMENT II	3	0	3	5
<u>ENVE 312</u>	WATER SUPPLY AND SEWERAGE	3	0	3	5
<u>ENVE 344</u>	SOLID WASTE MANAGEMENT	3	0	3	5
<u>ENVE 402</u>	ENVIRONMENTAL BIOTECHNOLOGY	3	0	3	5
<u>ENVE 407</u>	AIR POLLUTION CONTROL	3	0	3	5
<u>ENVE 408</u>	MARINE POLLUTION	3	0	3	5
<u>ENVE 411</u>	ENERGY AND ENVIRONMENT	3	0	3	5
<u>ENVE 415</u>	SOIL MECHANICS	2	2	3	5
<u>ENVE 417</u>	ENVIRONMENTAL LAW	3	0	3	5
<u>ENVE 432</u>	ENVIRONMENTAL IMPACT ASSESSMENT	3	0	3	5
<u>ENVE 498</u>	SENIOR PROJECT II	0	4	2	5
<u>EDU 202</u>	MEASUREMENT AND EVALUATION	3	0	3	5
<u>EEE 202</u>	CIRCUIT THEORY II	3	2	4	7
<u>EEE 237</u>	INTRODUCTION TO MICROPROCESSORS	3	2	4	5
<u>EEE 286</u>	ELECTROMAGNETIC WAVE THEORY	3	0	3	6
<u>EEE 292</u>	ELECTRONIC CIRCUITS AND DEVICES	3	2	4	5
<u>EEE 316</u>	COMMUNICATIONS I	3	2	4	6
<u>EEE 322</u>	ELECTRONICS II	3	2	4	7
<u>EEE 338</u>	LINEAR CONTROL SYSTEMS	3	2	4	6
<u>EEE 362</u>	ELECTRICAL MACHINERY II	3	2	4	6
<u>EEE 373</u>	HIGH VOLTAGE TECHNIQUES	3	0	3	5
<u>EEE 415</u>	INTRODUCTION TO MODULATION AND CODING	3	0	3	5
<u>EEE 421</u>	ANALOG INTEGRATED CIRCUIT DESIGN	3	2	4	6
<u>EEE 431</u>	DISCRETE TIME CONTROL SYSTEMS	3	2	4	6
<u>EEE 445</u>	FIBER OPTIC SENSORS	3	0	3	5
<u>EEE 451</u>	DIGITAL SIGNAL PROCESSING	3	2	4	6
<u>EEE 484</u>	INTRODUCTION TO ANTENNAS AND PROPAGATION	3	0	3	5
<u>EEE 496</u>	SPECIAL TOPICS IN ELECTRONICS ENGINEERING II	3	0	3	5
<u>EEE 498</u>	SENIOR DESIGN PROJECT	0	6	3	9
<u>IE 218</u>	OPERATIONS RESEARCH II	3	1	3	7
<u>IE 321</u>	PRODUCTION PLANNING AND CONTROL I	3	0	3	6
<u>IE 322</u>	PRODUCTION PLANNING AND CONTROL II	3	0	3	5
<u>IE 344</u>	QUALITY CONTROL	3	0	3	5
<u>IE 346</u>	SYSTEM ANALYSIS AND SIMULATION	2	2	3	6
<u>IE 401</u>	PRACTICAL TRAINING II	0	0	0	2
<u>IE 430</u>	TOTAL QUALITY MANAGEMENT	3	0	3	5
<u>IE 455</u>	APPLIED OPTIMIZATION	3	0	3	5
<u>IE 470</u>	SUPPLY CHAIN AND LOGISTICS MANAGEMENT	3	0	3	5
<u>IE 473</u>	ENTERPRISE RESOURCE PLANNING	3	0	3	5
<u>IE 476</u>	MODELING AND ANALYSIS OF MANUFACTURING SYSTEMS	3	0	3	5
<u>IE 481</u>	SPECIAL TOPICS IN INDUST. ENG. I	3	0	3	5
<u>PHIL 207</u>	ETHICS	4	0	4	6
<u>PHIL 304</u>	SCIENCE, TECHNOLOGY, VALUES AND SOCIETY	3	0	3	5
<u>PHIL 327</u>	INTRODUCTION TO APPLIED ETHICS	3	0	3	5
<u>PHIL 328</u>	ISSUES IN APPLIED ETHICS	3	0	3	6
<u>PHIL 403</u>	PHILOSOPHY OF ENVIRONMENT AND ENVIRONMENTAL ETHICS	3	0	3	5
<u>PHIL 405</u>	PHILOSOPHY OF BIOLOGY	3	0	3	6
<u>PHIL 406</u>	BIOETHICS	3	0	3	6
<u>PHYS 206</u>	OPTICS	3	0	3	6
<u>PHYS 208</u>	CLASSICAL MECHANICS	4	0	4	7
<u>PHYS 210</u>	MODERN PHYSICS	3	0	3	6
<u>PHYS 252</u>	PHYSICS LABORATORY IV	0	2	1	2
<u>PHYS 304</u>	QUANTUM MECHANICS II	3	0	3	6
<u>PHYS 306</u>	ELECTROMAGNETIC THEORY II	3	0	3	6
<u>PHYS 324</u>	STATISTICAL PHYSICS	3	0	3	6
<u>PHYS 352</u>	PHYSICS LABORATORY VI	0	2	1	2
<u>PHYS 404</u>	NUCLEAR AND PARTICLE PHYSICS	3	0	3	6
<u>PHYS 406</u>	MOLECULAR PHYSICS	3	0	3	7
<u>PHYS 422</u>	SOLID STATE PHYSICS II	3	0	3	6
<u>PHYS 423</u>	SEMICONDUCTOR PHYSICS	3	0	3	6
<u>PHYS 424</u>	LASERS	3	0	3	6
<u>PHYS 426</u>	MAGNETIC PROPERTIES OF SOLIDS	3	0	3	6
<u>GBE 201</u>	BIOMECHANICS	3	0	3	5
<u>GBE 204</u>	MICROBIAL BIOTECHNOLOGY	3	2	4	5
<u>GBE 205</u>	BIOCHEMISTRY	3	2	4	6
<u>GBE 207</u>	BIOMATERIALS	3	0	3	5

<u>GBE 208</u>	HUMAN PHYSIOLOGY	3	0	3	5
<u>GBE 210</u>	BIO THERMODYNAMICS	3	0	3	5
<u>GBE 301</u>	BIO SIGNALS AND SYSTEMS	3	0	3	4
<u>GBE 302</u>	BIOMEDICAL INSTRUMENTATION	3	0	3	5
<u>GBE 303</u>	CELL AND TISSUE ENGINEERING	3	2	4	6
<u>GBE 304</u>	PLANT PHYSIOLOGY AND ENGINEERING	3	0	3	5
<u>GBE 305</u>	BIOCHEMICAL ENGINEERING	3	0	3	5
<u>GBE 306</u>	BIOFLUID MECHANICS	3	0	3	5
<u>GBE 307</u>	HUMAN GENETICS AND DISEASES	3	0	3	5
<u>GBE 308</u>	BIOINFORMATICS	3	2	4	6
<u>GBE 310</u>	TECHNIQUES IN GENETIC ENGINEERING	3	2	4	6
<u>GBE 312</u>	TECHNIQUES IN GENETIC ENGINEERING LAB.	0	2	1	1
<u>GBE 409</u>	BIOSENSORS	3	0	3	6
<u>GBE 417</u>	SYSTEMS BIOLOGY	3	0	3	6
<u>GBE 418</u>	SYNTHETIC BIOLOGY	3	0	3	6
<u>GBE 419</u>	MOLECULAR BIOLOGY OF THE GENE	3	0	3	6
<u>GBE 420</u>	HUMAN GENOMICS AND PROTEOMICS	3	0	3	6
<u>GBE 421</u>	GENE THERAPY	3	0	3	6
<u>GBE 422</u>	PROTEIN DESIGN	3	0	3	6
<u>GBE 424</u>	GENETIC DISORDERS AND COUNSELING	3	0	3	6
<u>GBE 425</u>	TISSUE ENGINEERING	3	0	3	6
<u>GBE 426</u>	ANTIBODY ENGINEERING	3	0	3	6
<u>GBE 428</u>	NEUROPSYCHOLOGY	3	0	3	6
<u>GBE 433</u>	BIONANOTECHNOLOGY	3	0	3	6
<u>GBE 434</u>	CELL CYCLE	3	0	3	6
<u>GBE 492</u>	GENETIC ENGINEERING PROJECT	3	0	3	9
<u>CHEM 201</u>	ANALYTICAL CHEMISTRY I	4	0	4	7
<u>CHEM 202</u>	ANALYTICAL CHEMISTRY II	4	0	4	7
<u>CHEM 206</u>	PHYSICAL CHEMISTRY I	4	0	4	6
<u>CHEM 208</u>	ORGANIC CHEMISTRY I	4	0	4	6
<u>CHEM 252</u>	ANALYTICAL CHEMISTRY LABORATORY II	0	4	2	3
<u>CHEM 256</u>	PHYSICAL CHEMISTRY LABORATORY I	0	4	2	3
<u>CHEM 258</u>	ORGANIC CHEMISTRY LABORATORY I	0	4	2	3
<u>CHEM 306</u>	BIOCHEMISTRY	3	0	3	6
<u>CHEM 307</u>	INTRODUCTION TO QUANTUM CHEMISTRY	3	0	3	8
<u>CHEM 308</u>	ORGANIC CHEMISTRY II	4	0	4	7
<u>CHEM 310</u>	INTRODUCTION TO POLYMER CHEMISTRY	3	0	3	5
<u>CHEM 312</u>	INORGANIC CHEMISTRY II	4	0	4	8
<u>CHEM 313</u>	PRINCIPLES OF PESTICIDE CHEMISTRY	3	0	3	5
<u>CHEM 352</u>	INORGANIC CHEMISTRY LABORATORY	0	4	2	4
<u>CHEM 356</u>	BIOCHEMISTRY LABORATORY	0	4	2	4
<u>CHEM 402</u>	RESEARCH PROJECT	3	0	3	6
<u>CHEM 404</u>	DYES AND PIGMENTS	3	0	3	6
<u>CHEM 407</u>	MODERN SPECTROSCOPY	3	0	3	5
<u>CHEM 408</u>	ELECTROCHEMISTRY	3	0	3	6
<u>CHEM 410</u>	SEPARATION TECHNIQUES	3	0	3	6
<u>CHEM 414</u>	POLYMER CHEMISTRY	3	0	3	5
<u>CHEM 415</u>	ORGANIC REACTION MECHANISM	3	0	3	5
<u>CHEM 419</u>	ORGANOMETALLIC CHEMISTRY	3	0	3	5
<u>CHEM 420</u>	ENVIRONMENTAL CHEMISTRY	3	0	3	4
<u>CHEM 432</u>	SOLID STATE CHEMISTRY AND INORGANIC MATERIALS	3	0	3	5
<u>MATH 202</u>	ADVANCED CALCULUS II	4	0	4	8
<u>MATH 226</u>	NUMBER THEORY II	3	0	3	8
<u>MATH 230</u>	DIFFERENTIAL EQUATIONS	3	0	3	5
<u>MATH 232</u>	BOUNDARY VALUE PROBLEMS	3	0	3	7
<u>MATH 271</u>	DIFFERENTIAL EQUATIONS	3	0	3	5
<u>MATH 272</u>	BOUNDARY VALUE PROBLEMS	3	0	3	5
<u>MATH 281</u>	PROBABILITY & STATISTICS	3	0	3	5
<u>MATH 302</u>	COMPLEX ANALYSIS II	3	0	3	7
<u>MATH 332</u>	ABSTRACT ALGEBRA II	3	0	3	8
<u>MATH 346</u>	INTRODUCTION TO STATISTICS	3	0	3	4
<u>MATH 348</u>	INTRODUCTION TO PROBABILITY AND STATISTICS	3	0	3	5
<u>MATH 350</u>	INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS	3	0	3	4
<u>MATH 375</u>	NUMERICAL ANALYSIS I	3	0	3	5
<u>MATH 376</u>	NUMERICAL ANALYSIS II	3	0	3	5
<u>MATH 379</u>	INEQUALITIES	3	0	3	5
<u>MATH 410</u>	FUNCTIONAL ANALYSIS	3	0	3	10
<u>MATH 430</u>	INTRODUCTION TO THEORY OF L-FUNCTIONS	3	0	3	5
<u>MATH 440</u>	DIFFERENTIAL GEOMETRY	3	0	3	10
<u>MATH 474</u>	FOURIER SERIES AND INTEGRALS	3	0	3	5
<u>MATH 477</u>	NUMERICAL SOLUTIONS OF ODES	3	0	3	5
<u>PSY 211</u>	BIOPSYCHOLOGY	3	0	3	6
<u>PSY 220</u>	SENSATION AND PERCEPTION	3	0	3	5
<u>PSY 229</u>	HUMAN NERVOUS SYSTEM	3	0	3	5
<u>PSY 301</u>	COGNITIVE PSYCHOLOGY I	3	0	3	7

<u>PSY 302</u>	COGNITIVE PSYCHOLOGY II	3	0	3	5
<u>PSY 310</u>	HUMAN MEMORY	3	0	3	5
<u>PSY 313</u>	PSYCHOLOGY OF ADDICTION	3	0	3	5
<u>PSY 316</u>	INTRODUCTION TO NEUROSCIENCE	3	0	3	5
<u>PSY 410</u>	READINGS IN NEUROSCIENCE	3	0	3	5
<u>PCG 405</u>	RESEARCH METHODS IN BEHAVIORAL SCIENCES	3	0	3	5
<u>GEN 502</u>	MOLECULAR LABORATORY TECHNIQUES AND APPLICATIONS	3	0	3	7,5
<u>GEN 503</u>	MEDICAL GENETICS	3	0	3	7,5
<u>GEN 504</u>	RECOMBINANT DNA TECHNOLOGY	3	0	3	7,5
<u>GEN 505</u>	MOLECULAR BIOLOGY AND GENETICS	3	0	3	7,5
NON-AREA TECHNICAL ELECTIVES (3+0) 3		Theo.	Prac	Credits	ECTS
<u>APHR 305</u>	OSMANLI DÖNEMİNDE ERMENİLER	3	0	3	5
<u>APHR 411</u>	CUMHURİYET DÖNEMİ ÇAĞDAŞLAŞMA HAREKETLERİ	3	0	3	5
<u>EDU 420</u>	APPLIED EDUCATIONAL ENTREPRENEURSHIP	2	2	3	5
<u>ARB 201</u>	ARABIC LANGUAGE I	3	0	3	5
<u>CHN 201</u>	ÇİN DİLİ I	3	0	3	5
<u>CHN 202</u>	CHINESE LANGUAGE II	3	0	3	5
<u>FRE 201</u>	FRANSIZ DİLİ I	3	0	3	5
<u>FRE 202</u>	FRANSIZ DİLİ II	3	0	3	5
<u>FRE 301</u>	FRANSIZ DİLİ III	3	0	3	5
<u>GER 201</u>	ALMAN DİLİ I	3	0	3	5
<u>GER 202</u>	ALMAN DİLİ II	3	0	3	5
<u>JAP 201</u>	JAPANESE LANGUAGE I	3	0	3	5
<u>JAP 202</u>	JAPANESE LANGUAGE II	3	0	3	5
<u>PRS 201</u>	FARS DİLİ I	3	0	3	5
<u>PRS 202</u>	FARS DİLİ II	3	0	3	5
<u>RUS 201</u>	RUS DİLİ I	3	0	3	5
<u>RUS 202</u>	RUS DİLİ II	3	0	3	5
<u>SPN 201</u>	İSPANYOL DİLİ I	3	0	3	5
<u>SPN 202</u>	SPANISH LANGUAGE II	3	0	3	5

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