



ADIYAMAN UNIVERSITY
FACULTY OF SCIENCE AND LETTERS
DEPARTMENT OF BIOLOGY

INTRODUCTORY BOOKLET

2025-2026

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Our Department

The Department of Biology at Adıyaman University, Faculty of Arts and Sciences, began offering education at the undergraduate and graduate levels in the 2009-2010 academic year. Having completed all its infrastructure projects by 2014, our department has since been successfully continuing its undergraduate, graduate, and doctoral programs.

Department Administration

Head of Department

Prof. Dr. Mustafa COŞKUN

Vice Heads of Department

Prof. Dr. Yusuf SEVGİLER

Prof. Dr. Muhsin AYDIN

Academic Divisions and Faculty Members

Biotechnology

Prof. Dr. Mustafa COŞKUN (Head of Division)

Ecology and Environmental Biology

Prof. Dr. Tamer KAYIŞ (Head of Division)

General Biology

Prof. Dr. Yusuf SEVGİLER (Head of Division)

Hydrobiology

Prof. Dr. Serdar SÖNMEZ (Head of Division)

Molecular Biology and Genetics

Prof. Dr. Eyyüp RENCÜZOĞULLARI (Head of Division)

Prof. Dr. Muhsin AYDIN

Doç. Dr. Hesna YİĞİT

Zoology

Prof. Dr. Mehmet GÜVENÇ (Head of Division)

Prof. Dr. Özgür FIRAT

Botany

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Administrative Staff

Department Secretary

Kasım BEYAZ

Mission

Our mission is to educate individuals who are inquisitive, participatory, dynamic, and entrepreneurial in the subfields of Botany, Zoology, Hydrobiology, Molecular Biology, Genetics, and other branches of biology; who uphold cultural values and think universally. We aim to serve humanity by contributing to the advancement of science and technology, and to support the development of our country and region as a fundamental responsibility.

Vision

Our vision is to become a pioneering department open to technological innovations and competitive at the international level; to meet the requirements of the 21st century with its knowledgeable, experienced, and well-equipped academic staff; and to conduct creative and beneficial research under the guidance of academics recognized internationally in their fields. We strive to educate well-qualified biologists for the future and to use our academic and research capacity for the benefit of society.

The Importance of Biology Departments

The fundamental field of research in biological science is life itself. Biology helps us understand the structure of all living organisms, their environments, and their interactions with one another. In addition, with its focus on the diversity of life forms, biology serves as a bridge connecting fields such as environmental engineering, food engineering, medicine, pharmacy, and related sciences, and forms the foundation of these disciplines over time.

As a Department of Biology, we continue to work with an expanding and strengthening academic staff to swiftly achieve the goals we set at our establishment, and to pursue our long-term objectives with determination.

Why Should I Choose the Department of Biology?

As mentioned on the previous page, biology covers a very broad field of study. Even within taxonomy alone—the discipline that studies the diversity of living organisms—it is estimated that nearly 38 million species are yet to be discovered.

Fields such as Molecular Biology and Biochemistry continue to reveal the mysteries of the structure and functioning of living organisms through constantly evolving and updated research methods.

Today, the challenges brought about by increasing industrialization and the resulting pollution—now global issues—are being modeled and addressed through solutions developed in ecological and other biological sciences. In this regard, our department's graduates find employment opportunities in public institutions, private sector organizations, and universities through projects oriented toward solving such problems.

Career Opportunities for Our Graduates

Students who complete the biology program earn the title of “Biologist.” Biologists typically examine the structure of cells or tissues of living or non-living plants, animals, and humans in laboratories, as well as the changes that occur in these structures due to various chemical effects.

Today, biologists are predominantly employed in hospitals affiliated with the Ministry of Health and the Social Security Institution (SGK), in the medical faculties of universities, hydrobiology research centers, and institutions under the Ministry of Environment, Urbanization and Climate Change and the Ministries of Forestry and Agriculture. They may also work in the private sector, particularly in the pharmaceutical and food industries.

Graduates who complete pedagogical formation training can work as biology teachers in secondary schools affiliated with the Ministry of National Education or in private institutions. In addition, the increasing importance of Molecular Biology and Genetics enhances the employment opportunities of graduates working in these fields.



DNA

2025 YKS Placement Information

Our department admitted students in 2025 through the YKS exam using the quantitative (SAY) score type. In addition to the general quota, special quotas were also allocated for different applicant profiles. Placement information is summarized in the table below:

Quota Type	Quota	Placed	Lowest Score	Highest Score
General Quota	20	21	248,08733	278,57850
Quota for Earthquake-Affected Applicants	2	2	247,91288	248,07521
Quota for Women Over 34	1	1	191,25534	191,25534

SAY
Puan Türü

Öğrenci Alemi

Course Catalogue

1 - 4. Semester

1. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
AIT 101	ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION I	C	2	0	2	2
BYP 101	GENERAL BIOLOGY I	C	4	0	4	6
BYP 151	GENERAL BIOLOGY LABORATORY I	C	0	2	1	4
ENF 101	INTRODUCTION TO BASIC KNOWLEDGE TECHNOLOGIES	C	2	0	2	4
FZK 101	PHYSICS FOR BIOLOGISTS	C	2	2	3	4
KIM 101	CHEMISTRY FOR BIOLOGISTS	C	2	2	3	5
TD 101	TURKISH I	C	2	0	2	2
YD 101	ENGLISH I	C	2	0	2	3
2. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
AIT 102	ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION II	C	2	0	2	2
BYP 102	GENERAL BIOLOGY II	C	4	0	4	6
BYP 104	ENVIRONMENTAL BIOLOGY	C	2	0	2	3
BIY 106	BIOETHICS	C	2	0	2	3
BYP 108	BIOSTATISTIC	C	2	0	2	3
BYP 152	GENERAL BIOLOGY LABORATORY II	C	0	2	1	4
TD 102	TURKISH II	C	2	0	2	2
YD 102	ENGLISH II	C	2	0	2	3
BYP 110	PRINCIPLES OF TAXONOMY	C	2	0	2	2
MAT102	MATHEMATICS FOR BIOLOGISTS	C	2	0	2	2
3. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 201	CYTOLOGY	C	2	2	3	5
BYP 203	SYSTEMATICS OF INVERTEBRATES	C	3	2	4	7
BYP 207	SYSTEMATICS OF CRYPTOGAMIC PLANTS	C	3	2	4	7
BYP 209	PLANT ANATOMY AND MORPHOLOGY	C	2	2	3	7
ELECTIVE DEPARTMENTAL COURSES						
BYP 211	MICROTECHNIQUES	E	0	2	1	2
BYP 213	INTRODUCTION TO BIOINFORMATICS	E	2	0	2	2
BYP 215	OCCUPATIONAL HEALTH AND SAFETY	E	2	0	2	2
BYP 217	NUTRITIONAL BIOCHEMISTRY	E	2	0	2	2
4. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 200	SYSTEMATICS OF VERTEBRATES	C	3	2	4	7
BIY 204	ECOLOGY	C	2	0	2	3
BYP 206	HISTOLOGY	C	2	2	3	7
BYP 202	SYSTEMATICS OF PHANEROGAMIC PLANTS	C	3	2	4	7
KIM 210	ORGANIC CHEMISTRY	C	2	0	2	2
ELECTIVE DEPARTMENTAL COURSES						
BYP 208	BASIC TOXICOLOGY	E	2	0	2	2
BYP 210	MOLECULAR CYTOLOGY	E	2	0	2	2
BYP 212	EMBRYOLOGY	E	2	0	2	3
PEDAGOGICAL FORMATION COURSES						
PFE 001	INTRODUCTION TO EDUCATION	E	3	0	3	4

Abbreviations: C: Compulsory Course, T: Theoretical, P: Practical + Laboratory and laboratory-based applications, Cr: Credit, ECTS: European Credit Transfer System

The ELECTIVE courses coded as **OSD, selected from the common ELECTIVE course pool designated by the Adıyaman University Office of Common Courses for the Fall and Spring Semesters—and finalized by the Department of Biology through a decision of the Department Board—will be chosen by third- and fourth-year students under the guidance of their academic advisors.

Course Catalogue

5 and 6. Semester

5. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 301	GENETICS I	C	2	2	3	4
BYP 303	ANIMAL PHYSIOLOGY I	C	2	2	3	5
BYP 307	MOLECULAR BIOLOGY I	C	2	2	3	5
BYP 309	BIOCHEMISTRY I	C	2	2	3	5
BIY 311	MICROBIOLOGY I	C	2	0	2	3
BIY 351	MICROBIOLOGY I LABORATORY	C	0	2	1	2
ELECTIVE DEPARTMENTAL COURSES						
BYP 315	ADAPTATION TO PROFESSIONAL LIFE	E	2	0	2	3
BYP 317	BIODIVERSITY	E	2	0	2	3
BYP 319	BIOLOGICAL MARKERS	E	2	0	2	3
BYP 321	LABORATORY ANIMALS	E	2	0	2	3
BYP 323	FOOD MICROBIOLOGY	E	2	0	2	3
ELECTIVE NON-DEPARTMENTAL COURSES:						
OSDXXX	ELECTIVE **	E	3	0	3	5
PEDAGOGICAL FORMATION COURSES						
PFE 002	PRINCIPLES AND METHODS OF TEACHING	E	3	0	3	4
PFE 003	CLASSROOM MANAGEMENT	E	2	0	2	3
6. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 300	GENETICS II	C	2	2	3	4
BYP 302	ANIMAL PHYSIOLOGY II	C	2	2	3	5
BYP 306	MOLECULAR BIOLOGY II	C	2	2	3	5
BYP 312	BIOCHEMISTRY II	C	2	2	3	5
BIY 308	MICROBIOLOGY II	C	2	0	2	3
BIY 358	MICROBIOLOGY II LABORATORY	C	0	2	1	2
ELECTIVE DEPARTMENTAL COURSES						
BYP 316	BIOLOGICAL RICHNESS OF TURKEY	E	2	0	2	3
BYP 320	ANTIOXIDANTS	E	2	0	2	3
BYP 322	CANCER GENETICS	E	2	0	2	3
ELECTIVE NON-DEPARTMENTAL COURSES						
OSDXXX	ELECTIVE **	E	3	0	3	5
PEDAGOGICAL FORMATION COURSES						
PFE 004	SPECIAL TEACHING METHODS	E	3	0	3	4
PFE 005	SCHOOL COUNSELING AND SPECIAL EDUCATION	E	3	0	3	4

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Course Catalogue

7 and 8. Semester

7. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 403	EVOLUTION	E	3	0	3	4
BYP 405	PLANT PHYSIOLOGY	E	3	2	4	5
ELECTIVE DEPARTMENTAL COURSES						
BYP 401	RESEARCH PROJECT I	E	0	2	1	4
BIY 407	ENTOMOLOGY	E	2	0	2	4
BIY 411	GENE THERAPY	E	2	0	2	4
BIY 415	ENDOCRINOLOGY	E	2	0	2	4
BIY 419	STEM CELLS	E	2	0	2	4
BIY 421	LIPID BIOCHEMISTRY	E	2	0	2	4
BIY 423	FIELD APPLICATION METHODS	E	2	0	2	4
BIY 425	TYPES AND EFFECTS OF STRESS IN PLANTS	E	2	0	2	4
BIY 429	HUMAN ANATOMY AND PHYSIOLOGY	E	2	0	2	4
BIY 431	CELLULAR COMMUNICATION	E	2	0	2	4
BIY 433	PARASITOLOGY	E	2	1	3	4
BYP 451	PYTHON FOR BIOLOGISTS	E	2	2	3	4
BYP 453	MICROBIAL REPRODUCTION AND CONTROL	E	2	0	2	4
BYP 455	BIOGEOGRAPHY	E	2	0	2	4
ELECTIVE NON-DEPARTMENTAL COURSES						
OSDXXX	ELECTIVE **	E	3	0	3	5
PEDAGOGICAL FORMATION COURSES						
PFE 006	MEASUREMENT AND EVALUATION IN EDUCATION	E	3	0	3	4
PFE 007	PSYCHOLOGY OF EDUCATION	E	3	0	3	4
8. Semester						
Course Code	Course Name	C/E	T	P	Cr	ECTS
BYP 438	HYDROBIOLOGY	C	3	0	3	6
BYP 440	INTRODUCTION TO BIOTECHNOLOGY	C	2	0	2	3
ELECTIVE DEPARTMENTAL COURSES						
BYP 402	VEGETATION SCIENCE AND APPLICATION	E	2	2	3	4
BYP 400	RESEARCH PROJECT II	E	0	2	1	4
BIY 404	CONSERVATION AND GENETICS OF POPULATIONS	E	2	0	2	4
BIY 406	BEHAVIORAL BIOLOGY	E	2	0	2	4
BIY 410	HUMAN GENETICS	E	2	0	2	4
BIY 418	INDUSTRIAL MICROBIOLOGY	E	2	0	2	4
BIY 420	ENZYMOLGY	E	2	0	2	4
BIY 424	PLANT BIOTECHNOLOGY	E	2	0	2	4
BIY 430	CURRENT ENVIRONMENTAL ISSUES	E	2	0	2	4
BIY 432	HERPETOLOGY	E	2	2	3	4
BYP 442	MICROBIAL SOLUTIONS TO CLIMATE CHANGE	E	2	0	2	4
BYP 444	AQUATIC TOXICOLOGY	E	2	0	2	4
BYP 446	CLIMATIC CHANGE AND PHYSIOLOGICAL RESPONSES	E	2	0	2	4
BYP 448	PHYLOGENETIC ANALYSIS	E	2	2	3	4
ELECTIVE NON-DEPARTMENTAL COURSES						
OSDXXX	ELECTIVE **	E	3	0	3	5
PEDAGOGICAL FORMATION COURSES						
PFE 008	INSTRUCTIONAL TECHNOLOGIES	E	2	0	2	3
PFE 009	TEACHING PRACTICE	E	1	8	5	10

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Activities of the Biology Department

The academic staff of the Biology Department actively engage not only in undergraduate and graduate education but also in scientific research, project development, and community-oriented initiatives. Our faculty members:

- Serve as principal investigators, researchers, and consultants in ongoing and completed TÜBİTAK projects,
- Conduct scientific research projects supported within our university,
- Contribute to research-based studies within the scope of graduate thesis supervision,
- Publish in national and international peer-reviewed journals,
- Provide scientific contributions at symposiums, workshops, and congresses.

In addition, faculty members in our department offer scientific consultancy services in their areas of expertise to institutions affiliated with the Ministry of Agriculture and Forestry and the Ministry of Environment, Urbanization and Climate Change. Their fields of activity include biogeography, ecological monitoring, taxonomy, environmental assessment, biotechnology, molecular biology, and conservation biology.

Our department also continues to develop scientific collaborations and project partnerships aimed at strengthening cooperation between the university, public institutions, and the private sector.

Our Laboratories

Our department has a comprehensive and modern laboratory infrastructure that supports both education and research activities. This infrastructure provides the technical equipment necessary for studies conducted in core fields of biology such as animal biology, molecular genetics, biochemistry, physiology, and environmental toxicology.

Our laboratories are equipped for DNA isolation, PCR, electrophoresis, biochemical analyses, physiological experiments, environmental impact studies, and the taxonomic examination of live specimens. In addition, there are educational environments where students can gain hands-on experience using current methods through applied training.

This technical infrastructure effectively supports both research projects and practical courses at the undergraduate and graduate levels.



Contact Us

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