



ADIYAMAN UNIVERSITY
FACULTY OF SCIENCE AND LETTERS
DEPARTMENT OF BIOLOGY

INTRODUCTORY BOOKLET

2026-2027

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Our Department

The Department of Biology at Adiyaman 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.



2025 YKS Placement Information

In the 2025 YKS, our department admitted students in the SAY (quantitative) score type with a 100% occupancy rate. The quota-placement distribution and the net-score profile of the last admitted student are presented below.

Quota & Placement

Quota Type	Quota	Placed	Placement Rate
General	20	21	100%
Women over 34	1	0	0%
Martyr / Veteran Relatives	0	0	—
Earthquake-Affected	2	2	100%
School Valedictorian	1	0	0%
Total	20	21	

100%
FULL

Net-Score Profile of the Last Admitted Student

High-School GPA (OBP): 337.80 · Coefficient: 0.12

TYT Scores

Subject	Net
Turkish	8.75
Social Sciences	11.00
Basic Mathematics	13.25
Science	3.75

AYT Scores

Subject	Net
Mathematics	3.25
Physics	2.25
Chemistry	1.75
Biology	3.25

* Values show the net-score distribution of the last student admitted to the programme.

Course Catalogue

1st & 2nd Semester

SEMESTER 1 · Total 30 ECTS

Code	Course Title	T+P+L	Type	ECTS
AİİT 101	Atatürk's Principles and History of Revolution I	2+0+0	E	2
BYP 101	General Biology I	4+0+0	E	6
BYP 151	General Biology Laboratory I	0+2+0	E	4
ENF 101	Basic Information Technologies	2+0+0	E	4
FZK 101	Physics for Biology	2+2+0	E	4
KİM 101	Chemistry for Biology	2+2+0	E	5
TD 101	Turkish Language I	2+0+0	E	2
YD 101	Foreign Language I	2+0+0	E	3

SEMESTER 2 · Total 30 ECTS

Code	Course Title	T+P+L	Type	ECTS
AİİT 102	Atatürk's Principles and History of Revolution II	2+0+0	E	2
BIY 106	Bioethics	2+0+0	E	3
BYP 102	General Biology II	4+0+0	E	6
BYP 104	Environmental Biology	2+0+0	E	3
BYP 108	Biostatistics	2+0+0	E	3
BYP 110	Principles of Taxonomy	2+0+0	E	2
BYP 152	General Biology Laboratory II	0+2+0	E	4
MAT 102	Mathematics for Biology	2+0+0	E	2
TD 102	Turkish Language II	2+0+0	E	2
YD 102	Foreign Language II	2+0+0	E	3

Course Catalogue

3rd & 4th Semester

SEMESTER 3 • Total 36 ECTS

Code	Course Title	T+P+L	Type	ECTS
BYP 201	Cytology	2+0+2	E	5
BYP 221	Professional English I	2+0+0	E	2
BYP 223	Systematics of Invertebrates	3+0+2	E	6
BYP 225	Systematics of Seedless Plants	3+0+2	E	6
BYP 227	Plant Anatomy and Morphology	2+0+2	E	5
BYP 231	Microtechnique	0+0+2	E	3
BYP 233	Introduction to Bioinformatics	2+0+0	E	3
BYP 235	Occupational Health and Safety	2+0+0	E	3
BYP 237	Nutritional Biochemistry	2+0+0	E	3

SEMESTER 4 • Total 38 ECTS

Code	Course Title	T+P+L	Type	ECTS
BiY 204	Ecology	2+0+0	E	3
BYP 200	Systematics of Vertebrates	3+0+2	E	7
BYP 202	Systematics of Seed Plants	3+0+2	E	7
BYP 206	Histology	2+0+2	E	7
KİM 210	Organic Chemistry	2+0+0	E	3
BYP 208	Basic Toxicology	2+0+0	E	2
BYP 210	Molecular Cytology	2+0+0	E	2
BYP 212	Embryology	2+0+0	E	3
PFE 001	Introduction to Education	3+0+0	E	4

Course Catalogue

5th & 6th Semester

SEMESTER 5 · Total 40 ECTS

Code	Course Title	T+P+L	Type	ECTS
BYP 301	Genetics I	2+2+0	E	4
BYP 303	Animal Physiology I	2+0+2	E	5
BYP 307	Molecular Biology I	2+0+2	E	5
BYP 309	Biochemistry I	2+0+2	E	5
BYP 311	Microbiology I	2+0+0	E	3
BYP 351	Microbiology I Laboratory	0+2+0	E	2
BYP 317	Biodiversity	2+0+0	E	3
BYP 321	Laboratory Animals	2+0+0	E	3
BYP 323	Food Microbiology	2+0+0	E	3
PFE 002	Principles and Methods of Teaching	3+0+0	E	4
PFE 003	Classroom Management	2+0+0	E	3

SEMESTER 6 · Total 41 ECTS

Code	Course Title	T+P+L	Type	ECTS
BiY 308	Microbiology II	2+0+0	E	3
BiY 358	Microbiology II Laboratory	0+2+0	E	2
BYP 300	Genetics II	2+2+0	E	4
BYP 302	Animal Physiology II	2+2+0	E	5
BYP 306	Molecular Biology II	2+0+2	E	5
BYP 312	Biochemistry II	2+0+2	E	5
BYP 316	Biological Richness of Türkiye	2+0+0	E	3
BYP 320	Antioxidants	2+0+0	E	3
BYP 322	Cancer Genetics	2+0+0	E	3
PFE 004	Special Teaching Methods	3+0+0	E	4
PFE 005	Guidance and Special Education	3+0+0	E	4

Course Catalogue

7. Semester

SEMESTER 7 · Total 23 ECTS

Compulsory & Pedagogical Formation Courses

Code	Course Title	T+P+L	Type	ECTS
BYP 405	Plant Physiology	3+0+2	E	5
BYP 435	Evolution	2+0+0	E	4
BYP 437	Research Project I	0+0+2	E	2
PFE 006	Measurement and Evaluation in Education	3+0+0	E	4
PFE 007	Educational Psychology	3+0+0	E	4

Elective Course Pool (SEÇ 1) — at least 4 courses selected

Code	Course Title	T+P+L	Type	ECTS
BYP 325	Biogeography	2+0+0	E	3
BYP 407	Entomology	2+0+0	E	4
BYP 411	Gene Therapy	2+0+0	E	4
BYP 415	Endocrinology	2+0+0	E	4
BYP 419	Stem Cell	2+0+0	E	4
BYP 421	Lipid Biochemistry	2+0+0	E	4
BYP 423	Field Application Methods	2+0+0	E	4
BYP 425	Types and Effects of Stress in Plants	2+0+0	E	4
BYP 429	Human Anatomy and Physiology	2+0+0	E	4
BYP 431	Cellular Communication	2+0+0	E	4
BYP 433	Parasitology	2+0+0	E	4
BYP 453	Microbial Growth and Control	2+0+0	E	4
BYP 457	Python for Biologists	2+2+0	E	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

7 and 8. Semester

SEMESTER 8 · Total 26 ECTS

Compulsory & Pedagogical Formation Courses

Code	Course Title	T+P+L	Type	ECTS
BYP 438	Hydrobiology	3+0+0	E	6
BYP 440	Introduction to Biotechnology	2+0+0	E	3
PFE 008	Instructional Technologies	2+0+0	E	3
PFE 009	Teaching Practicum	1+8+0	E	10

Elective Course Pool (SEÇ 2) — at least 4 courses selected

Code	Course Title	T+P+L	Type	ECTS
BiY 404	Conservation and Genetics of Populations	2+0+0	E	4
BiY 406	Behavioral Biology	2+0+0	E	4
BiY 410	Human Genetics	2+0+0	E	4
BiY 418	Industrial Microbiology	2+0+0	E	4
BiY 420	Enzymology	2+0+0	E	4
BiY 422	Medicinal and Economic Plants	2+0+0	E	4
BiY 424	Plant Biotechnology	2+0+0	E	4
BiY 430	Current Environmental Issues	2+0+0	E	4
BiY 432	Herpetology	2+0+1	E	4
BYP 400	Research Project II	0+0+2	E	4
BYP 402	Vegetation Science and Application	2+2+0	E	4
BYP 442	Microbial Solutions to Climate Change	2+0+0	E	4
BYP 444	Aquatic Toxicology	2+0+0	E	4
BYP 446	Climatic Change and Physiological Responses	2+0+0	E	4
BYP 448	Phylogenetic Analysis	2+2+0	E	4

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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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