

ACADEMIC PROGRAM BOOK

Undergraduate Programme of Biology

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Universitas Negeri Surabaya



LEARNING OUTCOME

Here are some expected learning outcomes that students are anticipated to achieve upon completing the learning process in the International Undergraduate Program (IUP) Department of Biology at Universitas Negeri Surabaya.

CODE	PLO
СН	ARACTER AND SOCIAL
PLO-1	Demonstrate religious, national, and cultural
	values and academic ethics while performing
	their duties.
PLO-2	Exhibit a strong, collaborative, adaptive,
	innovative, and inclusive character, fostering
	lifelong learning and an entrepreneurial
	spirit.
	CRAL COMPETENCE
PLO-3	Develop logical, critical, systematic, and
	creative thinking skills essential for executing
	tasks in their field of expertise, aligned with
	the relevant professional competency
	standards.
PLO-4	Engage in sustainable and collaborative self-
NY O F	development.
PLO-5	Work independently in a laboratory setting,
	developing relevant skills while applying
SDEC	bioethics and ensuring occupational safety. IFIC COMPETENCE
PLO-6	Design and conduct experiments in biology
	and effectively manage, analyze, interpret, document, and store research data to manage
	natural biological resources.
PLO-7	Display fundamental knowledge of biology
	pertinent to science and mathematics to
	understand current scientific phenomena and
	issues, applying this knowledge to problem-
	solving.
	KNOWLEDGE
PLO-8	Show a foundational understanding of cell
	and molecular biology, organismal biology,
	ecology, and evolution to analyze
	contemporary biological issues responsibly.
PLO-9	Utilize biological knowledge and technology
	to address natural resources and
	environmental challenges, supporting the
	fields of professional practice and
	Bioecopreneurship (including eco-
	innovation, eco-opportunity, and eco-
	commitment).

PLO-10	Demonstrate proficiency in software applications and instruments, standard analysis methods, and synthesis in biology, enhancing digital literacy and technology that supports biological science and its applications.
PLO-11	Effectively communicate scientific ideas verbally and in writing using suitable communication media tailored to the audience.

LECTURER'S PROFILE

• Infographics (The Quantity of Lecturers with Doctoral, Master Degree, and Professor Title)

The International Undergraduate Program (IUP) of the Department of Biology at Universitas Negeri Surabaya is supported by a team of 19 qualified faculty members, comprising one professor (5%), nine Ph.D. holders (47%), and nine master's degree (48%) holders. Each faculty member specializes in key areas of biological sciences, including microbiology, genetics, ecology, plant structure and physiology, as well as animal structure and physiology, ensuring a comprehensive and high-quality learning experience for students. Below is the graphical representation of the IUP, Department of Biology faculty profile.

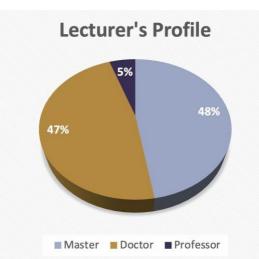


Figure 1. Graphical representation of the Department of Biology faculty profile.

• Accreditation (National and International Accreditation)

The Undergraduate Program in Biology was accredited by the National Accreditation Board for Higher Education (BAN-PT) with an "A" rating from 2020 to 2025 (BAN-PT Decision No. 3424/SK/BAN-PT/Ak-PPJ/S/VII/20). Additionally, this program has received international accreditation from the Accreditation Agency for Study Programmes in Engineering, Informatics, Natural Sciences, and Mathematics (ASIIN e.V.), which is recognized as equivalent to level 6 of the European Qualifications Framework for Lifelong Learning (EQF LLL). This international accreditation is valid from June 24, 2022, to limited until September 30, 2027.

PROGRAM'S PROFILE

A Brief History

The Department of Biology at Universitas Negeri Surabaya (UNESA) has a longstanding tradition of excellence in biological education and research. Initially established as part of the Faculty of Education under the Surabaya Institute of Teaching and Education Sciences (IKIP Surabaya), the department was founded to fulfill the increasing demand for competent biology educators in Indonesia. With the transformation of IKIP Surabaya into Universitas Negeri Surabaya on June 10, 1998, the department expanded its academic scope beyond teacher training to encompass broader biological sciences and research.

Over the years, the Department of Biology has continuously evolved to meet national and global academic standards. It has developed a strong theoretical foundation and practical skills in biology. Since its inception, the department has been committed to advancing biological sciences, focusing on tropical biology and edu-ecopreneurship. The department's vision is to develop a resilient, adaptive, innovative, and collaborative Biology Study Program grounded in edu-ecopreneurship and tropical biology to support sustainable optimization of natural resources. Integrating **edu-ecopreneurship** and **tropical biology** are the key elements of the academic approach in the Department of Biology. Edu-ecopreneurship aims to reduce environmental burdens, while tropical biology involves the study of biodiversity and ecosystems in tropical regions. By integrating these concepts, the department strives to produce graduates proficient in biological sciences with entrepreneurial skills and a strong environmental ethos. Moreover, the Department of Biology has also actively engaged in research initiatives, contributing to advancements in biodiversity conservation, biotechnology, and environmental sciences.

Recognizing the importance of international collaboration, the Department of Biology has established partnerships with universities and research institutions worldwide. These collaborations have facilitated academic exchanges, joint research projects, and professional development opportunities for students and faculty members. The Department of Biology at UNESA has launched the International Undergraduate Program (IUP) in response to the growing need for globally competent graduates. This program will provide students with the information, skills, and global exposure required to thrive in a progressively interconnected society.

To achieve this vision, the department has outlined a series of milestones. From **2021** to **2025**, the department aims to attain **ASEAN-level recognition in innovations** based on eduecopreneurship and tropical biology. Between **2026 and 2030**, the focus will shift towards achieving **ASEAN-level recognition** in research, thereby increasing the regional significance of academic contributions in these areas. Finally, from **2031 to 2035**, the department aspires to secure **international recognition in research** centered on edu-ecopreneurship and tropical biology. These progressive milestones reflect the department's commitment to advancing academic excellence, fostering sustainable research, and establishing itself as a leader in biological sciences on a global scale.

CURRICULUM CURRICULUM STRUCTURE

No	Course Name	Compulsory/ Elective	Credits	Semester	1 st Smtr	2 nd Smtr	3 rd Smtr	4 th Smtr	5 th Smtr	6 th Smtr	7 th Smtr	8 th Smtr	Total
Compulsory curriculum courses													
1	Religion Education (Budism) Religion Education (Hinduism) Religion Education (Islam) Religion Education (Catholic) Religion Education (Khonghucu) Religion Education (Protestant)	Compulsory	2	2		2							
2	Civics	Compulsory	2	3			2						
3	Pancasila	Compulsory	2	1	2								
4	Bahasa Indonesia	Compulsory	2	3			2						
Institutional Compulsory curriculum courses													
1	Physical Education	Compulsory	2	1	2								
2	Digital Literacy	Compulsory	2	1	2								
3	Entrepreneurship	Compulsory	2	3			2						
4	English	Compulsory	2	5	2				2				
Expertise and Scientific Courses													

	1	1										
General Biology	Compulsory	3	1	3								
General Chemistry	Compulsory	3	1	3								
General Physics	Compulsory	3	1	3								
Basic Mathematics	Compulsory	2	1	2								
Conservation of Natural Resources and Environment	Compulsory	2	2		2							
Biochemistry	Compulsory	3	2		3							
Cell & Molecular Biology	Compulsory	3	3			3						
Biotechnology	Compulsory	2	4				2					
Ecology	Compulsory	4	3			4						
Evolution	Compulsory	2	7							2		
Animal Physiology	Compulsory	4	4				4					
Plant Physiology	Compulsory	4	4				4					
Genetics and Genomics	Compulsory	4	3			4						
Microbiology	Compulsory	3	4				3					
Plant Systematics	Compulsory	4	3			4						
Animal Systematics	Compulsory	4	3			4						
Plant Structure and Development	Compulsory	4	2		4							
Animal Structure and Development	Compulsory	4	2		4							
Tropical Biodiversity	Compulsory	2	4				2					
Research Methods	Compulsory	3	4				3					
Biostatistics dan Biocomputer	Compulsory	3	2		3							
Bioinformatics	Compulsory	2	7							2		
Quality Control Management	Compulsory	3	7							3		
Laboratory Technique	Compulsory	2	1	2								
	General Physics Basic Mathematics Conservation of Natural Resources and Environment Biochemistry Cell & Molecular Biology Biotechnology Ecology Ecology Evolution Animal Physiology Plant Physiology Plant Physiology Genetics and Genomics Microbiology Plant Systematics Animal Systematics Plant Structure and Development Animal Structure and Development Tropical Biodiversity Research Methods Biostatistics dan Biocomputer Bioinformatics Quality Control Management	General ChemistryCompulsoryGeneral PhysicsCompulsoryBasic MathematicsCompulsoryConservation of Natural Resources and EnvironmentCompulsoryBiochemistryCompulsoryBiochemistryCompulsoryCell & Molecular BiologyCompulsoryBiotechnologyCompulsoryEcologyCompulsoryEvolutionCompulsoryAnimal PhysiologyCompulsoryPlant PhysiologyCompulsoryMicrobiologyCompulsoryPlant SystematicsCompulsoryPlant Structure and DevelopmentCompulsoryAnimal Structure and DevelopmentCompulsoryPlant Structure and DevelopmentCompulsoryResearch 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MethodsCompulsory34221Research MethodsCompuls	General ChemistryCompulsory3131311General PhysicsCompulsory31313111Basic MathematicsCompulsory2121111Conservation of Natural Resources and EnvironmentCompulsory222111BiochemistryCompulsory3233111BiochemistryCompulsory3333111Cell & Molecular BiologyCompulsory3333111BiotechnologyCompulsory2421111EcologyCompulsory43411111EvolutionCompulsory444111111MicrobiologyCompulsory444111

6	Analysis Technique of Molecular Biology	Compulsory	2	4		2			
7	Microtechnique	Compulsory	2	4		2			
Creative	Skills Course (Intership)								
Elective of	courses: 16 credits (6-8 courses)								
1	Programme Planning		2	5			2		
2	Evaluation programme		2	6			2		
	Elective course		16	6					
	Limnology	Elective	2				2		
	Waste manajement	Elective	2				2		
	Ecophysiology	Elective	2				2		
	Histology	Elective	2				2		
	Animal Reproduction	Elective	2						
	Human Genetics	Elective	2						
2	Pharmacogenomics	Elective	2						
3	Cytogenetic	Elective	2						
	Intertidal zone biodiversity	Elective	2						
	Biogeography	Elective	2						
	Tropical Plants	Elective	2						
	Immunology	Elective	2						
	Ecotoxicology	Elective	2						
	Marine Ecology	Elective	2						
	Biological Control	Elective	2						
	Applied microbiology	Elective	2						
4	Seminar	Compulsory	2	7				2	
5	Thesis	Compulsory	4	7/8				4	
	n Community Life (Independent								
study/ent	repreneurship/national								

defense/h	umanitarian project/independent												
	kchange/village project)												
1	Programme Planning		2	6						2			
2	Evaluation Programme		2	6						2			
3	Elective course	Elective	16	6									
	Limnology	Elective	2										
	Waste management	Elective	2							2			
	Ecophysiology	Elective	2							2			
	Histology	Elective	2							2			
	Animal reproduction	Elective	2							2			
	Human Genetics	Elective	2							2			
	Pharmacogenomics	Elective	2							2			
	Cytogenetic	Elective	2										
	Intertidal zone biodiversity	Elective	2							2			
	Biogeography	Elective	2							2			
	Tropical Plants	Elective	2							2			
Elective C	Courses												
1	Elective courses	Elective	6	6	21	18	25	22	22	20	19	0	147
	Study Program Elective Courses												
1	Histology	Elective	2	Odd/Even									
2	Plant Embryology	Elective	2	Odd/Even									
3	Pharmacognosy	Elective	2	Odd/Even									
4	Phytohormone	Elective	2	Odd/Even									
	Ecophysiology/Ecophysiology of												
5	Tropical Plant and Animal	Elective	2	Odd/Even									
6	Immunology	Elective	2	Odd/Even									
7	Endocrinology	Elective	2	Odd/Even									
8	Microbial Genetics	Elective	2	Odd/Even									
9	Population Genetics	Elective	2	Odd/Even									

10	Gerontology	Elective	2	Odd/Even
11	Microbial Systematics	Elective	2	Odd/Even
12	Industrial Microbiology	Elective	2	Odd/Even / / / / / / / / / / / / / / / / / / /
13	Limnology	Elective	2	Odd/Even
14	Ecotoxicology	Elective	2	Odd/Even
15	Marine Ecology	Elective	2	G Odd/Even
16	Tropical Biogeography	Elective	2	G Odd/Even
17	Ornithology	Elective	2	G Odd/Even
18	Parasitology	Elective	2	G Odd/Even
19	Applied Biology	Elective	2	G Odd/Even
20	Animal Reproduction	Elective	2	G Odd/Even
21	Plant Morphogenesis	Elective	2	G Odd/Even
22	Tropical Plant Pest and Disease	Elective	2	G Odd/Even
23	Nutrient Science	Elective	2	G Odd/Even
24	Tropical Horticuluture	Elective	2	G Odd/Even
25	Oncology	Elective	2	G Odd/Even
26	Human Anatomy and Physiology	Elective	2	G Odd/Even
27	Applied Genetics	Elective	2	G Odd/Even
28	Mycology	Elective	2	G Odd/Even
29	Environmental Microbiology	Elective	2	G Odd/Even
30	Virology	Elective	2	G Odd/Even
31	Aquatic biota cultivation	Elective	2	G Odd/Even
32	Waste Management	Elective	2	G Odd/Even
33	Environmental Impact Analysis	Elective	2	Odd/Even
34	Numerical Taxonomy	Elective	2	Odd/Even
35	Ethnobotany/Tropical Ethnobotany	Elective	2	Odd/Even
36	Entomology	Elective	2	Odd/Even
37	Malacology	Elective	2	Odd/Even

	DNA Barcoding Tropical Flora and								
38	Fauna	Elective	2	Odd/Even					
39	Tissue culture	Elective	2	Odd/Even					

COURSE MAPPING

Below is the course mapping for the International Undergraduate Program (IUP) of the Department of Biology at Universitas Negeri Surabaya. Students are required to complete a total of 144 credit hours, which is equivalent to 192.96 ECTS, following the conversion rate of 1 credit = 1.34 ECTS.

1ST SEMESTER

COURSES	CREDITS	ECTS
Pancasila	2	3.18
Physical Education	2	3.18
Digital Literacy	2	3.18
General Biology	3	4.77
General Chemistry	3	4.77
General Physics	3	4.77
Mathematics	2	3.18
Laboratory Techniques	2	3.18
Total	19	30.21

2ND SEMESTER

COURSES	CREDITS	ECTS
Religion Education	2	3.18
Civics	2	3.18
Conservation of Natural Resources and		3.18
Environment	2	
Biochemistry	3	4.77
Plant Structure and Development	4	6.36
Animal Structure and Development	4	6.36
Biostatistics and Biocomputer	3	4.77
Total	20	31.8

3RD SEMESTER

COURSES	CREDITS	ECTS
Bahasa Indonesia	2	3.18
Entrepreneurship	2	3.18
Molecular Biology	3	4.77
Ecology	4	6.36
Genetics	4	6.36
Plant Systematics	4	6.36
Animal Systematics	4	6.36
Total	23	36.57

4TH SEMESTER

COURSES	CREDITS	ECTS
Analysis Technique of Molecular Biology	2	3.18
Biotechnology	2	3.18

Animal Physiology	4	6.36
Plant Physiology	4	6.36
Microbiology	3	4.77
Tropical Biodiversity	2	3.18
Biology Research Methodology	3	4.77
Microtechnique	2	3.18
Total	22	34.98

5TH SEMESTER

COURSES	CREDITS	ECTS	
English	2	3.18	
Course on Community Life (Independent			
study/entrepreneurship/national defense/humanitarian			
project/independent student exchange/villa			
Program in Partner University based on the	e student topics of	of interest for	
their thesis			
Elective courses: 16 credits (6-8 courses)	l		
Programme Planning	2	3.18	
Evaluation programme	2	3.18	
Limnology	2	3.18	
Waste manajement	2	3.18	
Ecophysiology	2	3.18	
Histology	2	3.18	
Animal Reproduction	2	3.18	
Human Genetics	2	3.18	
Pharmacogenomics	2	3.18	
Cytogenetic	2	3.18	
Intertidal zone biodiversity	2	3.18	
Biogeography	2	3.18	
Tropical Plants	2	3.18	
Immunology	2	3.18	
Ecotoxicology	2	3.18	
Marine Ecology	2	3.18	
Biological Control	2	3.18	
Applied microbiology	2	3.18	
Total	22	34.98	

6TH SEMESTER

COURSES	CREDITS	ECTS
Internship	20	31.8
Programme Planning	2	3.18
Evaluation programme	2	3.18
Elective courses: 16 credits (6-8 courses)	16	25.44
Total	20	31.8

7TH SEMESTER

COURSES	CREDITS	ECTS
Evolution	2	3.18
Bioinformatics	2	3.18
Quality Control Management	2	3.18
Seminar	2	3.18
Thesis	4	6.36
Elective Course	6	9.54
Total	18	28.62

8TH SEMESTER

COURSES	CREDITS	ECTS
Thesis	4	636
Total		

Credits Total= 144 credits, which is equivalent to 228.96 ECTS (1 credits = 1.34 ECTS)

ACADEMIC FACILITIES

1. Classroom and Auditorium

This program provides five classrooms for teaching and learning activities and an Auditorium with all the latest equipment that helps give workshops and guest lectures for effective learning.



2. Laboratories

The Undergraduate International Program of Biology has several laboratories that support teaching, learning, and research activities for students and lecturers, including Basic Biology, Structure and Development, Microbiology, Tissue Culture, Ecology, Taxonomy, Physiology, Mycology, Biotechnology, Molecular Biology, Greenhouse, Experimental Animal, and Microtechnique.



3. Library

This library has a comprehensive collection of books supporting students' academic needs. Library services include book borrowing and on-site visits, which adhere to the official working hours of the Faculty of Mathematics and Natural Sciences, UNESA. Students and visitors may also utilize the library's reading room facilities. The reading room offers a quiet and comfortable environment, equipped with air conditioning and several tables and chairs, accommodating approximately 20 students.



INTERNATIONAL COLLABORATION

To facilitate the establishment of the International Undergraduate Program, Universitas Negeri Surabaya has forged strategic partnerships with various esteemed international universities. These collaborations aim to enhance research initiatives and academic engagements, thereby fostering a dynamic and globally competitive learning environment for students. The following is a list of international partnerships currently being developed by Universitas Negeri Surabaya and the Department of Biology.

No.	Affiliated Partner	Country	Year of Agreement	Documents
1	The Halal Science Center, Chulalongkorn University	Thailand	2025	Agreement under review
2	Department of Biochemistry and Molecular Biology, University of Maryland Baltimore	USA	2025	MoA IA
3	Faculty of Science, University of Malaya	Malaysia	2025	IA
4	School of Science, Walailak University	Thailand	2025	Agreement under review
5	College of Science and Engineering, National Dong Hwa University	Taiwan	2024	MoA
6	School of Education, Deakin University	Australia	2024	IA
7	Graduate Institute of Applied Science & Technology, National Taiwan University Of Science & Technology	Taiwan	2024	MoA
8	Graduate School of Interdisciplinary Science and Engineering in Health Systems, Okayama University	Japan	2023	MoA
9	University Sains Malaysia	Malaysia	2021	<u>MoU</u>

Universitas Negeri Surabaya has devised a strategic plan to enhance student international exposure, which is set to be implemented in the fifth and sixth semesters. This international exposure encompasses a range of academic and professional experiences, including research collaborations, student exchange programs, internships, and community service initiatives. Thus far, the Department of Biology at Universitas Negeri Surabaya has established various international exposure opportunities for its students, which include: [list of programs or collaborations are followed].

No.	International Activities	Country	Number of Students
1	International Credit Transfer di FSG UiTM Odd Semester 2021/2022	Malaysia	4
2	International Summer Program Osaka University 2021	Japan	23
3	UGM Summer Course 2021 Batch I	Indonesia	1
4	International Credit Transfer Program at Tarlac Agricultural University Even Semester 2020/2021	Philippines	2

CONTACT

• The Faculty Campus: PIC (Adhoc International Class) contact number, e-mail, website, social media