

Student Academic Handbook

2023

BIOLOGY STUDY PROGRAMME
FACULTY OF MATHEMATIC AND NATURAL
SCIENCE

MULAWARMAN UNIVERSITY,
SAMARINDA

**MERDEKA
BELAJAR**

**Kampus
Merdeka**
INDONESIA JAYA

MBKM
Merdeka Belajar Kampus Merdeka

Foreword

Praise be to Allah SWT, who has bestowed His grace, guidance, and blessings, allowing the completion of this handbook on time. This book comprehensively outlines the list of biology courses based on the 2023 curriculum, making it easier for students to understand the objectives of each course. Additionally, it includes information about course prerequisites, recommended semester placements, and other practical tips that support effective study planning for students.

We hope that this book serves as a useful guide for students in the Bachelor's Degree Program in Biology throughout their pursuit of knowledge. It is hoped that it will assist them in selecting courses that align with their interests, enabling each step in their exploration of biological science to be taken confidently and meaningfully.

We acknowledge the existence of shortcomings and errors in this book, and therefore, constructive feedback and suggestions are highly welcomed to continuously improve the quality of this academic guide. Together, let us strive to achieve a higher level of biological knowledge.

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Introduction

This Guidebook provides a comprehensive overview of the courses offered in the Biology Study Programme, including brief descriptions, learning objectives, and recommended semester placements, which have been summarized from the 2023 Biology Program curriculum. We believe that a deep understanding of this curriculum will assist you in planning your academic journey effectively, ensuring that every step you take positively impacts your development as a future professional biologist.

Furthermore, we offer various opportunities for involvement in extracurricular activities, research, internships, and collaborative projects related to ecosystems and biodiversity. Engaging in these activities will broaden your horizons, develop teamwork skills, and provide opportunities to contribute to understanding and conserving Indonesia's natural wealth.

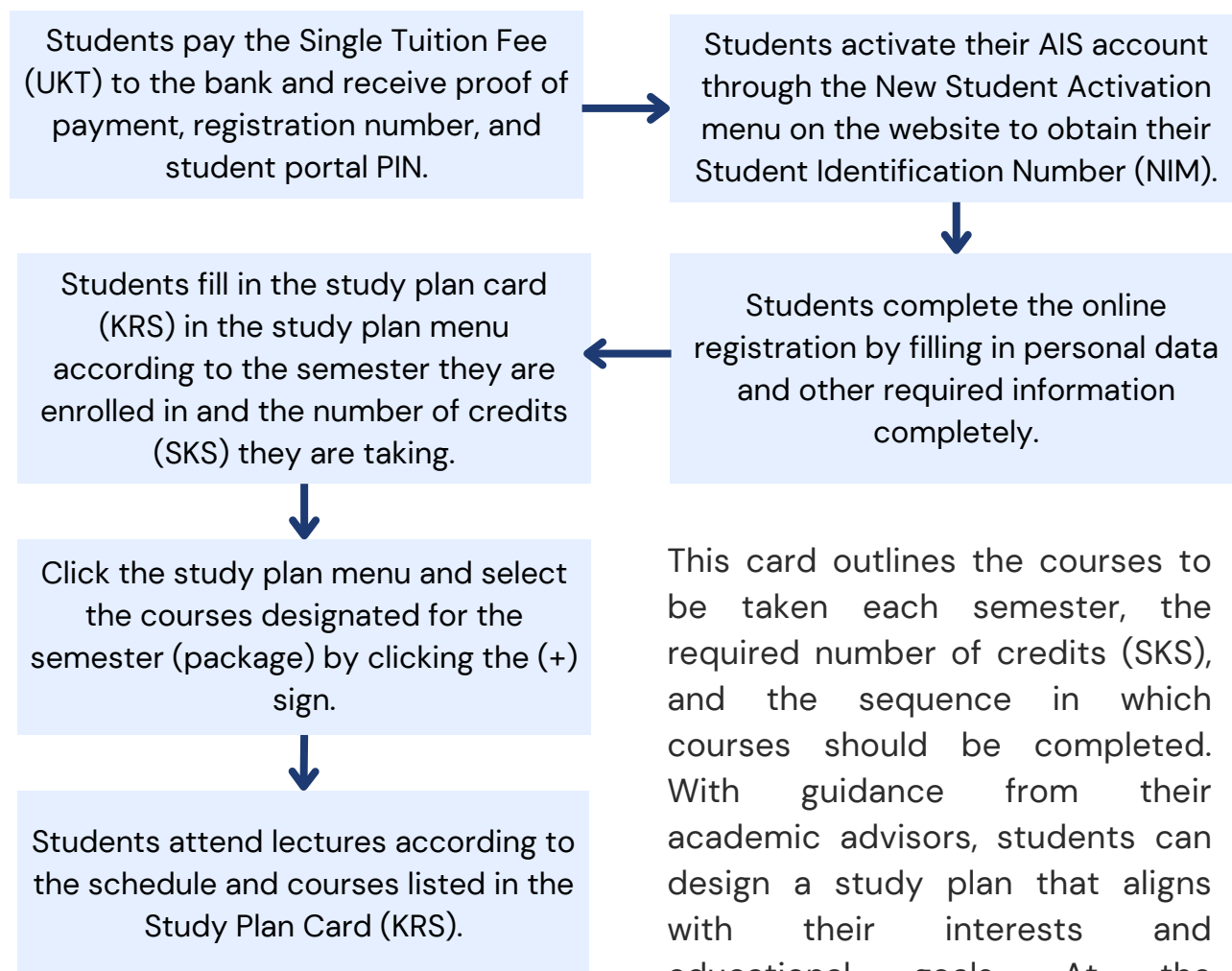
Use this Student Guidebook as a steadfast reference in every step of your academic journey. Be prepared to face challenges and seize opportunities with enthusiasm, for in this journey, you will discover a wealth of knowledge that will guide you toward a successful future.



The Teaching System Bachelor's of Biology

A. THE STUDY PLAN CARD (KRS)

The Study Plan Card (KRS) is an essential tool for students, serving as a roadmap for their academic journey throughout their studies in this program.



This card outlines the courses to be taken each semester, the required number of credits (SKS), and the sequence in which courses should be completed. With guidance from their academic advisors, students can design a study plan that aligns with their interests and educational goals. At the beginning of their studies, the courses typically consist of mandatory subjects in a package that must be enrolled in as a whole.

Table 1. Courses for Semester I of the 2023 Curriculum for the Biology Program

SEMESTER I

Nr.	Courses Code	Courses	Theory	Practicum	Credits	Type	ECTS	PLO
1.	MU0000602W002	Pancasila	2	-	2	C	3.2	1
2.	MU0000602W006	Basic Cultural and Social Sciences	2	-	2	C	3.2	1
3.	PA0700603W001	Elementary Calculus	2	1	3	C	4.8	1
4.	PA0700603W002	Basic of Biology	2	1	3	C	4.8	1, 3, 5, 7
5.	PA0700603W004	Basic of Physics	2	1	3	C	4.8	1, 2, 4, 6
6.	230702603W001	English	3	-	3	C	4.8	1, 2, 4, 6
7.	PA0700603W003	Basic of Chemistry	2	1	3	C	4.8	1, 2, 4, 6
8.	230702603W002	Plant Morphology	2	1	3	C	4.8	1, 3, 4, 5, 6

B. SEMESTER CREDIT UNITS (SKS) / EUROPEAN CREDIT TRANSFER SYSTEM (ECTS)

The education system in the Biology Study Program follows the Semester Credit System (SKS), which is aligned with the European Credit Transfer and Accumulation System (ECTS). Each course has a specific SKS weight that reflects the amount of time and activities required per week in a semester, and these SKS are equivalent to ECTS credits.

Below are the details of the semester credit units (SKS) and their corresponding activities:

- Lecture, response, or tutorial SKS includes 50 minutes of face-to-face instruction, 60 minutes of structured activities, and 60 minutes of independent activities per week.
- Seminar or similar forms of learning include 100 minutes of face-to-face instruction and 70 minutes of independent activities per week.
- 1 SKS for practicals, studio practices, workshops, fieldwork, research, community service, or equivalent learning activities involves 170 minutes per week per semester.

For international compatibility, 1 SKS is generally considered equivalent to 1.59 ECTS, in line with the typical conversion between Indonesian SKS and European ECTS credits. This ensures that the workload and credit system used in the Biology Study Program is recognized internationally, allowing for easier credit transfer and mobility between institutions.

C. STUDY LOAD, STUDY DURATION, AND GRADE POINT AVERAGE (GPA)

Based on the Minister of Research, Technology, and Higher Education Regulation (Permenristekdikti) No. 44 of 2015, Article 15, the following provisions apply to the study load and the Semester Credit System (SKS), integrated with the European Credit Transfer and Accumulation System (ECTS):

- The student workload is expressed in semester credit units (SKS), as stated in Article 10, paragraph (2) letter d.
- One SKS is equivalent to 170 minutes of learning activities per week per semester (approximately 2.83 hours, rounded to 3 hours). In terms of ECTS, 1 SKS is generally considered equivalent to 1.59 ECTS.
- Each course must have a minimum weight of 1 SKS.
- A semester is a unit of time for effective learning activities lasting 16 weeks.

For students in the Bachelor's Program in Biology, the required study load is approximately 144 SKS, which is equivalent to 228,96 ECTS (using the 1:1.59 conversion). The study period is between 8 to 14 semesters. The study load is monitored each semester through the Semester Grade Point Index (IPS), and cumulatively through the Cumulative Grade Point Index (IPK). The study load per semester is determined based on the previous IPS, with the following provisions:

- **Minimum Study Load Requirement:** The study load per semester is calculated based on the student's previous semester's IPS, ensuring that students do not take on an excessive number of credits. Generally, there is a minimum threshold for credits a student must complete in each semester, ensuring a balanced academic load.
- **Progressive Study Load:** Students with higher IPS scores may be allowed to take on a greater number of credits, while those with lower IPS scores may be advised to reduce their course load for the next semester.
- **Maximum Credit Limit:** There is usually a maximum number of credits that can be taken per semester, which ensures students are not overwhelmed. This limit helps maintain a manageable workload.
- **Academic Advising:** Students are advised by academic advisors to adjust their study load based on their IPS, ensuring they meet graduation requirements within the typical study duration (8 to 14 semesters).

PREVIOUS SEMESTER'S IPS	MAXIMUM CREDIT LIMIT (SKS)
IP < 1,5	12
1,5 ≤ IP < 2,00	15
2,0 ≤ IP < 2,50	18
2,0 ≤ IP < 2,50	21
IP > 3,00	24

The determination of a student's Grade Point Average (GPA) is based on the quality points, letter grades, and credit weight of each course taken. Below are the provisions for determining the credit weight of each course based on the quality points:

Quality Point	Credit Weight	Letter Grades
80 ≤ AM < 100	4,0	A
75 ≤ AM < 80	3,5	B
70 ≤ AM < 75	3,0	
65 ≤ AM < 70	2,5	C
60 ≤ AM < 65	2,0	
50 ≤ AM < 60	1,5	D
40 ≤ AM < 50	1,0	
0 ≤ AM < 40	0,0	E

The grade points for each course are multiplied by the credit weight (SKS) of that course to calculate the total quality points for the semester. The GPA (Indeks Prestasi) is then calculated by dividing the total quality points by the total number of credits (SKS) taken during that semester.

The evaluation of students' academic progress is conducted annually, taking into account the number of credits (SKS) completed and the Cumulative Grade Point Average (GPA or IPK) based on the following provisions:

Evaluation Year	Minimum Credit (SKS)	Minimum Grade Point Average (GPA)
End of First Year	24	2,00
End of Second Year	48	2,00
End of Third Year	72	2,00

Information regarding academic regulations and graduation requirements can be accessed through the Rector's Regulation of Mulawarman University Number 17 of 2020 via the following link:

<https://biologi.fmipa.unmul.ac.id/page?content=Peraturan.Akademik>

D. GRADUATION CLASSIFICATION OF STUDENTS

Graduates of the Bachelor's Program in Biology are entitled to receive the title of Bachelor of Science (S.Si.) after participating in the Graduation Ceremony (Yudisium) and Commencement. The graduation classification for each student will be awarded based on their Cumulative Grade Point Average (GPA or IPK). The graduation classifications are determined according to the following standards:

Graduation Classification	GPA (IPK)	Description
With Honors (Cum Laude)	GPA > 3.50	Requirements: 1. Maximum study duration of 9 semesters 2. No retakes of courses 3. All courses must have a minimum grade of B 4. Must obtain the Mulawarman University English Proficiency Test (MU-EPT) or a TOEFL Prediction recognized by the UPT Language Center 5. No academic or other violations at Mulawarman University
Very Satisfactory	3.00 ≤ GPA ≤ 3.50	-
Satisfactory	2.75 ≤ GPA ≤ 3.00	-
Adequate	2.00 ≤ GPA ≤ 2.75	-

Type of Courses

As a student in the Bachelor's Degree Program in Biology, it is essential to understand the course requirements necessary to obtain the Bachelor of Science (S.Si.) degree. To graduate, you are expected to complete a minimum of 144 SKS / 228,96 ECTS (Semester Credit Units) within a timeframe of no less than 8 semesters and no more than 14 semesters.

The following is a detailed breakdown of the types of courses offered within the Bachelor's Degree Program in Biology:

- University Mandatory Courses: 6 courses, totaling 15 SKS (23,85 ECTS)
- Faculty Mandatory Courses: 5 courses, totaling 15 SKS (23,85 ECTS)
- Program Mandatory Courses: 27 courses, totaling 70 SKS (111,3 ECTS)
- Elective Courses: 64 courses, totaling 154 SKS, with a minimum of 44 SKS required to be selected (69,96 ECTS).

You are required to complete 100 SKS from mandatory courses and a minimum of 44 SKS from elective courses to meet the graduation requirements and earn a Bachelor of Science degree in Biology.

The university mandatory courses consist of 6 courses, totaling 15 SKS, as follows:

- Pancasila Education (2 SKS)
- Religious Education (3 SKS)
- Civic Education (2 SKS)
- Basic Social and Cultural Sciences (2 SKS)
- Indonesian Language (2 SKS)
- Community Service Program (KKN) (4 SKS)

The faculty compulsory courses consist of 5 courses, totaling 15 SKS, as follows:

- Elemental Calculus (3 SKS)
- Basic Biology (3 SKS)
- Basic Chemistry (3 SKS)
- Basic Physics (3 SKS)
- Basic Statistics (3 SKS)

The program's compulsory courses consist of 27 courses, totaling 70 SKS, as follows:

- Plant Morphology (3 SKS)
- Animal Anatomy and Histology (4 SKS)
- Animal Systematics I (3 SKS)
- Plant Systematics I (3 SKS)
- Plant Anatomy and Embryology (3 SKS)
- Cell and Molecular Biology (2 SKS)
- Microbiology and Microbial Systematics (3 SKS)
- Genetics (3 SKS)
- Animal Systematics II (3 SKS)
- Plant Systematics II (3 SKS)
- Entrepreneurship (2 SKS)
- Introduction to Biotechnology (2 SKS)
- Animal Physiology (3 SKS)
- Plant Physiology (3 SKS)
- Microtechniques (2 SKS)
- Mycology (3 SKS)
- Ecology (3 SKS)
- Biochemistry (3 SKS)
- Animal Reproduction and Embryology (3 SKS)
- Research Methodology (2 SKS)
- Microbial Physiology and Genetics (3 SKS)
- Evolution (2 SKS)
- English Language (2 SKS)
- Thesis (6 SKS)

The elective courses in the program consist of 64 courses, totaling 154 SKS, as follows:

- Environmental Impact Analysis (2 SKS)
- Entomology (2 SKS)
- Molecular Biology Analysis Techniques (3 SKS)
- Phytohormones (3 SKS)
- Field Work Practice (PKL) (2 SKS)
- Animal Reproductive Physiology (2 SKS)
- Tropical Wet Aquaculture (3 SKS)
- Histopathology (2 SKS)
- Dipterocarp Biology (3 SKS)
- Ethnobiology (2 SKS)
- Mammalogy (3 SKS)
- Population Genetics (3 SKS)
- Plant Pathology (3 SKS)
- Special Topics Supporting Thesis (TKPS) (2 SKS)
- Tropical Wetland Fisheries Resource Management (2 SKS)
- Bioremediation (2 SKS)
- Food Microbiology (3 SKS)
- Industrial Microbiology (3 SKS)
- Tropical Wetland Forest Restoration Ecology (2 SKS)
- Tropical Wetland Forest Biodiversity Conservation (2 SKS)
- Insect Ecology (2 SKS)
- Phytochemistry (2 SKS)
- Seed Physiology (2 SKS)
- Occupational Health and Safety (2 SKS)
- Biomedical Science (2 SKS)
- Aquatic Ecology (2 SKS)
- Arthropoda (2 SKS)
- Herpetology (3 SKS)
- Medicinal Plants (2 SKS)
- Biological Pest Control (2 SKS)
- Ecotoxicology (2 SKS)
- Palynology (3 SKS)
- Biogeography (2 SKS)

- Quantitative Ecology (3 SKS)
- Ornithology (3 SKS)
- Dendrology (3 SKS)
- Environmental Microbiology (3 SKS)
- Bioinformatics (2 SKS)
- Molecular Microbial Genetics (3 SKS)
- Plant Tissue Culture (3 SKS)
- Tropical Plant Breeding (3 SKS)
- Plant Ecophysiology (2 SKS)
- Endocrinology (2 SKS)
- Enzyme Biotechnology (3 SKS)
- Parasitology (2 SKS)
- Ethology (3 SKS)
- Genetic Conservation (3 SKS)
- Fish Reproduction Biology (3 SKS)
- Ichthyology (3 SKS)
- Morphometrics (3 SKS)
- Animal Domestication (3 SKS)
- Plant Ecology (3 SKS)
- Soil Science (2 SKS)
- Plant Growth Analysis Techniques (2 SKS)
- Nutrigenomics (2 SKS)
- Aquatic Animal Physiology (2 SKS)
- Quality Monitoring (2 SKS)
- Tropical Wetland Soil Management (2 SKS)
- Cell Genetics (2 SKS)
- Immunology (2 SKS)
- Stem Cell Biology (2 SKS)
- Microbial Biodiversity and Ecology (2 SKS)
- Benthos Biology (2 SKS)
- Soil Science (3 SKS)

Courses of the Bachelor of Biology Study Program

The courses mentioned above have been grouped and designed to allow you to complete the program in a minimum of 8 semesters. The distribution of courses in the Biology Study Programme is designed to provide clear guidance on the courses to be taken each semester, allowing you to plan and manage your study time effectively.

SEMESTER I

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	MU0000602W002	Pancasila	2	-	2	C	3.2
2.	MU0000602W006	Basic Cultural and Social Sciences	2	-	2	C	3.2
3.	PA0700603W001	Elementary Calculus	2	1	3	C	4.8
4.	PA0700603W002	Basic of Biology	2	1	3	C	4.8
5.	PA0700603W004	Basic of Physics	2	1	3	C	4.8
6.	230702603W001	English	3	-	3	C	4.8
7.	PA0700603W003	Basic of Chemistry	2	1	3	C	4.8
8.	230702603W002	Plant Morphology	2	1	3	C	4.8

SEMESTER II

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	MU0000603W00	Religion	3	-	3	C	4.8
2.	MU0000602W004	Indonesian Language	2	-	2	C	3.2
3.	MU0000602W003	Civic Education	2	-	2	C	3.2
4.	230702604W003	Animal Anatomy and Histology	3	1	4	C	6.4
5.	230702603W004	Animal Systematics I	2	1	3	C	4.8
6.	230702603W005	Plant Systematics I	2	1	3	C	4.8
7.	230702603W006	Plant Anatomy and Embryology	2	1	3	C	4.8
8.	230702602W007	Cell and Molecular Biology	2	-	2	C	3.2

SEMESTER III

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	PA0700603W005	Basic of Statistic	2	1	3	C	4.8
2.	230702603W008	Microbiology	2	1	3	C	4.8
3.	230702603W009	Genetics	2	1	3	C	4.8
4.	230702603W010	Animal Systematics II	2	1	3	C	4.8
5.	230702603W011	Plant Systematics II	2	1	3	C	4.8
6.	230702603W014	Animal Physiology	2	1	3	C	4.8
7.	230702602W013	Introduction of Biotechnology	2	-	2	C	3.2
8.	230702602W023	Evolution	2	-	2	C	3.2

SEMESTER IV

	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702603W022	Microbial Physiology and Genetics	2	1	3	C	4.8
2.	230702603W020	Animal Embryology and Reproduction	2	1	3	C	4.8
3.	230702603W015	Plant Physiology	2	1	3	C	4.8
4.	230702602W012	Entrepreneurship	2	-	2	C	3.2
5.	230702602W016	Microtechniques	2	-	2	C	3.2
6.	230702603W017	Mycology	2	1	3	C	4.8
7.	230702603W018	Ecology	2	-	2	C	3.2
8.	230702603W019	Biochemistry	2	-	3	C	4.8

SEMESTER V

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702602W021	Research Methodology	2	-	2	C	3.2
2.		Elective Course			3	E	

SEMESTER VI

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	MU0000603W007	Community Services	-	4	4	C	6.4
2.		Elective Course			3	E	

SEMESTER VII

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702606W024	Undergraduate Thesis	-	6	6	C	9.6
2.		Elective Course			3	E	

SEMESTER VIII

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702606W024	Undergraduate Thesis	-	6	6	C	9.6

ELECTIVE COURSES OF FIRST YEAR

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702602P025	Environmental Impact Assessment	2	-	2	E	3.2
2.	230702602P026	Entomology	2	-	2	E	3.2
3.	230702603P027	Technique of Molecular Biology Analysis	2	1	3	E	4.8
4.	230702603P028	Phytohormon	2	1	3	E	4.8
5.	230702602P029	Internship	-	2	2	E	3.2
6.	230702602P030	Physiological of Animal Reproduction	2	-	2	E	3.2
7.	230702603P031	Tropical Rainforest Aquaculture	2	1	3	E	4.8
8.	230702602P032	Histopathology	2	-	2	E	3.2
9.	230702603P033	Biology of Dipterocarpaceae	2	1	3	E	4.8
10.	230702602P034	Ethnobiology	2	-	2	E	3.2
11.	230702603P035	Mammalogy	2	1	3	E	4.8
12.	230702603P036	Population Genetics	2	1	3	E	4.8
13.	230702603P037	Phytophatology	2	1	3	E	4.8
14.	230702602P038	Special Topics Supporting Thesis	-	2	2	E	3.2
15.	230702602P039	Water Resources Tropical Management	2	-	2	E	3.2

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
16.	230702602P040	Bioremediation	2	-	2	E	3.2
17.	230702603P041	Food Microbiology	2	1	3	E	4.8
18.	230702603P042	Industrial Microbiology	2	1	3	E	4.8
19.	230702603P043	Ecology of Wet Tropical Forest Restoration	2	-	2	E	3.2
20.	230702603P044	Tropical Rainforest Biodiversity Conversation	2	-	2	E	3.2
21.	230702603P045	Insect Ecology	2	-	2	E	3.2
22.	230702603P046	Phytochemistry	2	-	2	E	3.2
23.	230702603P047	Seeds Physiology	2	-	2	E	3.2
24.	230702603P048	Occupational Health and Safety	2	-	2	E	3.2
25.	230702603P049	Biomedical Sciences	2	-	2	E	3.2
26.	230702603P050	Aquatic Ecology	2	-	2	E	3.2
27.	230702603P051	Arthropods	2	1	3	E	4.8
28.	230702603P052	Herpetology	2	-	2	E	3.2
29.	230702603P053	Medicinal Plant	2	-	2	E	3.2
30.	230702603P085	Stem Cell Biology	2	-	2	E	3.2
31.	230702603P086	Microbial Biodiversity and Ecology	2	-	2	E	3.2
32.	230702603P088	Soil Sciences	2	-	2	E	3.2
33.	230702603P087	Benthos Biology	2	-	2	E	3.2

ELECTIVE COURSES OF SECOND YEAR

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
1.	230702602P054	Biological Pest Control	2	-	2	E	3.2
2.	230702602P055	Ecotoxicology	2	-	2	E	3.2
3.	230702602P056	Palynology	2	1	3	E	4.8
4.	230702602P057	Biogeography	2	-	2	E	3.2
5.	230702602P058	Quantitative Ecology	2	1	3	E	4.8
6.	230702602P059	Ornithology	2	1	3	E	4.8
7.	230702602P060	Dendrology	2	1	3	E	4.8
8.	230702602P061	Environmental Microbiology	2	1	3	E	4.8
9.	230702602P062	Bioinformatics	2	-	2	E	3.2
10.	230702602P063	Microbial Molecular Genetics	2	1	3	E	4.8

Nr.	Courses Code	Courses	Theory	Practicum	Total Credits	Type	ECTS
11.	230702602P064	Plant Tissue Culture	2	1	3	E	4.8
12.	230702602P065	Tropical Plant Breeding	2	1	3	E	4.8
13.	230702602P066	Plant Ecophysiology	2	-	2	E	3.2
14.	230702602P067	Endocrinology	2	-	2	E	3.2
15.	230702603P068	Enzymes Biotechnology	2	1	3	E	4.8
16.	230702602P069	Parasitology	2	-	2	E	3.2
17.	230702603P070	Ethology	2	1	3	E	4.8
18.	230702603P071	Conservation Genetics	2	1	3	E	4.8
19.	230702603P072	Fish Reproductive Biology	2	1	3	E	4.8
20.	230702603P073	Ichthyology	2	1	3	E	4.8
21.	230702603P074	Morphometrics	2	1	3	E	4.8
22.	230702602P038	Special Topics Supporting Thesis	2	-	2	E	3.2
23.	230702603P075	Animal Domestication	2	1	3	E	4.8
24.	230702602P076	Plant Ecology	2	-	2	E	3.2
25.	230702602P077	Plant Nutrition	2	-	2	E	3.2
26.	230702602P078	Plant Growth Analysis	2	-	2	E	3.2
27.	230702602P079	Nutrigenomics	2	-	2	E	3.2
28.	230702602P080	Aquatic Animal Physiology	2	-	2	E	3.2
29.	230702602P081	Water Quality Monitoring	2	-	2	E	3.2
30.	230702602P082	Management of Wet Tropical Soils	2	-	2	E	3.2
31.	230702602P029	Internship	-	2	2	E	3.2
32.	230702602P083	Cytogenetics	2	-	2	E	3.2
33.	230702602P084	Immunology	2	-	2	E	3.2

Merdeka Belajar-Kampus Merdeka (MBKM)

The “Kampus Merdeka” (Independent Campus) initiative is a policy aimed at fostering more autonomous and flexible learning in higher education institutions. It supports an innovative learning culture tailored to the needs of students. One of the key programs under the Kampus Merdeka framework is the right for students to undertake learning activities outside their study program for up to three semesters. This program grants students the flexibility to earn academic credits (SKS) from outside their primary discipline, consisting of:

- 1 semester (equivalent to 20 credits) for taking courses outside their study program;
- 2 semesters (equivalent to 40 credits) for participating in learning activities outside the university.

This program is in accordance with the Minister of Education and Culture Regulation (Permendikbud) No. 3 of 2020 concerning the National Standards for Higher Education.

Various forms of activities under the Kampus Merdeka (MBKM) scheme that can be undertaken by students of the Biology Study Program include:

• INTERNSHIP/INDUSTRIAL PRACTICE

• RESEARCH

• TEACHING AT A SCHOOL

• STUDENT EXCHANGE

• HUMANITARIAN PROJECT

• VILLAGE PROJECT / COMMUNITY DEVELOPMENT PROJECT

• INDEPENDENT STUDY/PROJECT

• NATIONAL DEFENSE PROGRAM / STATE DEFENSE

• ENTREPRENEURSHIP



Mulawarman University