

MATHEMATIC AND
NATURAL SCIENCE
LABORATORY
YOGYAKARTA STATE UNIVERSITY

STUDENT HANDBOOK

BIOLOGY STUDY PROGRAM

DEPARTMENT OF BIOLOGY EDUCATION
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
YOGYAKARTA STATE UNIVERSITY

<https://biologi.fmipa.uny.ac.id/>



YSU VISION

To become a superior, creative and innovative educational university based on piety, independence and intelligence in 2025

YSU MISSION:

- 1. Organizing superior, creative and innovative academic and professional education in the field of education to produce people who are devout, independent and intelligent.*
- 2. Organizing superior, creative and innovative academic, professional and vocational education in non-educational fields to produce people who are devout, independent and intelligent.*
- 3. Carrying out research to discover, develop and disseminate science, technology and arts that improve the welfare of individuals and society, and support regional and national development, as well as contribute to solving global problems creatively and innovatively based on piety, independence and intelligence.*
- 4. Carrying out creative and innovative community service and empowerment that encourages the development of human, community and natural potential to realize community welfare based on piety, independence and scholarship.*
- 5. Organizing good, clean and authoritative governance and services in the implementation of higher education autonomy to create a superior, creative and innovative university based on piety, independence and intelligence.*
- 6. Creating a learning process and environment that is able to empower students creatively and innovatively to carry out lifelong learning based on piety, independence and intelligence.*
- 7. Develop cooperation with other institutions, both national and international, creatively and innovatively to improve the quality of implementation of Tridharma with the principles of equality and mutual benefit based on piety, independence and scholarship.*

Foreword

We give thanks to the presence of Almighty God for His blessings and grace so that the student handbook (student handbook) Department of Biology Education, Faculty of Mathematics and Natural Sciences (MIPA), Yogyakarta State University (UNY) can be completed. Unlike the previous version, this book has been adapted to OBE Curriculum which has been implemented simultaneously in all UNY undergraduate study programs since semester 1 of the 2021/2022 academic year.

As the name suggests, this book was prepared to guide students in undergoing lectures in the Biology Education undergraduate study program. This book also aims to introduce students to various organizations, activities and facilities available within the UNY environment. Thus, students can develop themselves optimally while taking the undergraduate program at UNY. We always welcome criticism, suggestions and suggestions from various parties to improve this book in the future.

Yogyakarta, April 2024

Drafting team

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UNY Logos



Information:

The logos is shaped like a pentagonal lotus flower, the base color is blue. Written by Universitas Negeri Yogyakarta which is made circular with UNY calligraphy writing, the image of the wings of the Garuda Bird is yellow, and in the middle there is an image of a monument, with a mustaka in the shape of fire split into three, stairs, chest, body, and the foot of the monument.

Yogyakarta State University (UNY) Hymn

L,S: Heni Kusumawati

Ka - ru - nia Yang Ma - ha Kua - sa mem - bim - bing lang - kah -

Mu, Mem - ba ngun In - do - ne - sia me - na - ta du - ni -

a. Ber - lan - das - kan Pan - ca - si - la, bu - da - ya mu - li -

a, 'tuk - men - ca - pai tu - ju - an bang - sa - se - hat - cer - das - taq

- wa, Me - ngem - ban pang - gil - an su - ci, dhar - ma -

bak - ti - mu - a - mal - kan il - mu U - ni - ver - si - tas Ne - gri

Yog - ya - kar - ta s' - mo - ga te - tap ber - ja - ya

Mars Yogyakarta State University (UNY)

L,S : Agus Untung Yulianta

I. Pa - da - mu ku - per-sem - bah - kan wa-hai per - sa - da nu -
II. ke pri - ba - di - an bang - sa junjung- ting -gi ni - lai

1.
I. san - ta - ra da-lam pan -ji Tri - dhar - ma U - ni - ver-si-tas ne-gri Yog ya kar
II. Bu - da - ya te-guh- kan-ji wa sa -

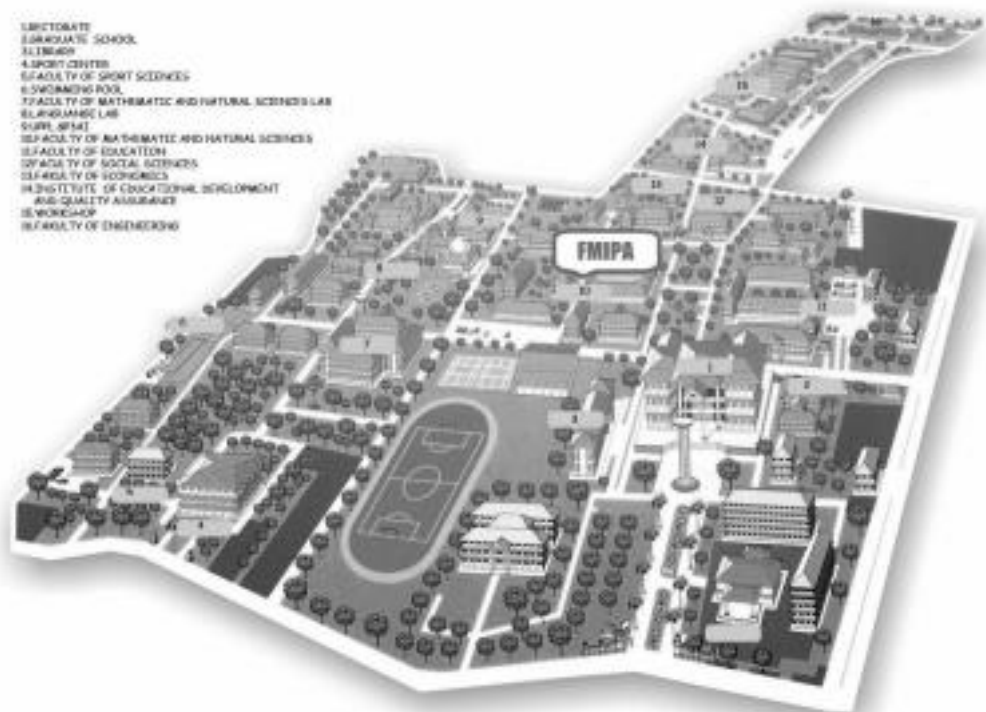
2.
- ta Ben-tuk tri - a te-gak- kan - jan ji pe-ngab-di - an

mu Wu - jud -kan jan-ji pan-ji Tri Dhar-ma-ber - lan -das - kan Pan-ca

- si - la Me -ngem-ban tu gas su-ci ne-ga- ra Me-nu- ju ci - ta-ci-ta-mu

lia ga - lang cip - ta - ra - sa kar- sa ba - gi Nu- sa bang - sa

Map of Yogyakarta State University (UNY)



1. Profile of the Department of Biology Education

A. Brief History

Every year, Yogyakarta State University (UNY) commemorates May 21 as his birth date. This date is the founding date of the Yogyakarta Teacher Training and Education Institute (IKIP), which was the predecessor of UNY. IKIP Yogyakarta was inaugurated by the Minister of Higher Education and Science (PTIP) on May 21 1964.

The history of IKIP Yogyakarta cannot be separated from the existence of the Faculty of Pedagogy (FP) Gadjah Mada University (UGM) which was founded on September 19th 1955. At that time FP UGM had two sections, namely the Education Section and the Physical Education Section. Apart from that, there are also B1 and B2 courses in Exact and Natural Sciences which are organized by the UGM Faculty of Exact and Natural Sciences. On February 2nd 1962, the Pedagogical Faculty was split into three faculties, namely the Faculty of Education (FIP), the Faculty of Physical Education (FPD), and the Faculty of Teacher Training and Education (FKIP). However, in 1963 FPD was included in the Ministry of Sports and became a Sports College (STO).

At that time, the demands on the world of education were increasingly high, so the demand for teaching staff was also high. FKIP UGM was so popular that the number of students in 1962 reached 1,469 people. To overcome this, Minister of Education and Culture Decree No. 92 of 1962 concerning the establishment of the Teacher Education Institute (IPG). On January 3 1963, the merger between FKIP and IPG was implemented to become the Teacher Training and Education Institute (IKIP). Likewise with FIP which was later merged into IKIP. In 1964, the B1-B2 Exact Sciences and Natural Sciences courses were also separated from UGM and merged into IKIP.

According to the Decree of the Chancellor of IKIP number 05 of 1965 concerning the Organizational Structure of IKIP Yogyakarta, IKIP Yogyakarta has five faculties, namely the Faculty of Educational Sciences (FIP), the Teaching Faculty of Exact Sciences (FKIE), the Teaching Faculty of Literature and Arts (FKSS), the Teaching Faculty of Social Sciences (FKIS), and the Faculty of Technical Teaching (FKT). At that time, FKIE had four departments, namely the Department of Exact Sciences, the

Department of Natural Sciences, the Department of Life Sciences, and the Department of Chemistry.

Based on Indonesian Government Regulation number 27 of 1981 concerning Faculty Arrangement and Presidential Decree number 54 of 1982, on 7th September 1982 the name of FKIE changed to Faculty of Education.

Mathematics and Natural Sciences (FPMIPA). Starting December 8th 1983, FPMIPA organized four departments, namely Mathematics Education, Physics Education, Biology Education and Chemistry Education.

In 1997, following the change in the name of IKIP to Yogyakarta State University (UNY), FPMIPA opened a new study program, namely the Physics, Mathematics, Chemistry and Biology Study Program in accordance with the Letter of the Director General of Higher Education, Ministry of Education and Culture of the Republic of Indonesia number 1259/DT/T/97 concerning permission to open the program non-educational studies at UNY. The name FPMIPA also changed to Faculty of Mathematics and Natural Sciences (FMIPA). Since then, the UNY Department of Physics Education has organized two study programs, namely the Undergraduate Physics study program and the Undergraduate Physics Education study program.

Currently the Biology Education Department has 3 study programs, namely the Biology Undergraduate Study Program, the Biology Education Undergraduate Study Program, and the Biology Education Masters Study Program.

B. Vision of the Undergraduate Biology Study Program

The Biology Study Program of FMIPA UNY will become an international biology institution and is aiming to produce Bachelors of Biology who are devout, independent, intellectual, creative, innovative, and globally insightful.

C. Mission

The Biology Study Program of FMIPA UNY carries out the mission of:

1. Organizing undergraduate Biology education based on devotion, independence, intellectuality, and global insight.

2. Carrying out research and development of Biology and its application.
3. Opening community service services in the field of Biology.
4. Developing entrepreneurship in the field of Biology.

D. Address

Address : Building D15, Faculty of Mathematics and Natural Sciences, 3rd Floor, UNY Karangmalang Campus, Jalan Colombo no. 1, Yogyakarta, Indonesia.

Postal Code : 55281

Telephone : +62 274 565411, +62274 586168 psw. 217, 336

Fax : +62 274 548203 (Faculty of Mathematics and Natural Sciences)

Site : biologi.fmipa.uny.ac.id

E. Educator Personnel

Information related to lecturer profiles can be seen at <https://biologi.fmipa.uny.ac.id/id/dosen-bio>

F. Educational Facilities

Facilities or educational facilities managed by the Department of Biology Education include:

1. Laboratory Room (Ecology and Environment Laboratory, Zoology Laboratory, Botany Laboratory, Supporting basic science laboratory, Computer Laboratory, Research Laboratory)
2. Laboratory Guest Room
3. Library Room
4. Experimental Plant Garden
5. Experimental Garden
6. Greenhouse
7. Organic Waste Treatment Unit
8. Experimental Animal Management Unit
9. Experimental Pond
10. Top Roof Greenhouse
11. Mini Forest/Arboretum
12. Experimental Garden



Botany Laboratory (left), Biochemistry and Biotechnology Laboratory (right)

The facilities or means managed by the Faculty of Mathematics and Natural Sciences include :

1. Department Room Department and Study Program Management Office
2. Lecturer's Room
3. Classrooms
4. Biology Student Association Room
5. Exam Room
6. Reading Room
7. Session Room I
8. Session Room II
9. Prayer Room
10. Digital library

G. Scientific Publication Media

UNY's Department of Biology Education manages 2 scientific publication media as follows.

1. Kingdom: The Journal of Biological Studies

Online

P-ISSN 2986-5328

E-ISSN 9686-4844

Publisher Yogyakarta State University

Editor in Chief Dr. Anna Rakhmawati S.Si., M.Si.

Frequency Two issues per year: Maret & September

Focus & Scope	<p>This journal presents scientific articles from empirical research and the results of literature analysis studies in the field of biology.</p> <p>The scope of this journal covers the fields of biology, biotechnology, bioinformatics, and applied biology in the fields of microbiology, environment, agriculture, industry, and health science, and related to fields of applied biology. The publishing procedure for this journal is through peer-review and applies scientific publishing ethics as stipulated by COPE (Committee on Publication Ethics).</p>
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Link Address: <https://journal.student.uny.ac.id/kingdom>

Address :

The Biology Study Program, Department of Biology Education, Faculty of Mathematics and Natural Sciences, State University Yogyakarta Jl. Colombo Yogyakarta No. 1, KarangMalang, Caturtunggal, District. Depok, Sleman Regency, Yogyakarta Special Region 55281

2. Indonesian Journal of Bioscience (IJOBI)

Online

P-ISSN 3032-0216

E-ISSN 3032-0194

DOI Prefix 10.21831

Publisher Yogyakarta State University, in collaboration with
Perhimpunan Biologi Indonesia

Editor in Chief: Paramita Cahyaningrum Kuswandi, M.Sc., Ph.D.

Frequency 2 issues per year: April & October

Focus & Scope	Indonesian Journal of Bioscience (IJOBI) is a journal published twice yearly (April and October) by the Biology Study Program, Department of Biology Education, Faculty of Mathematics and Natural Sciences, Universitas Negeri Yogyakarta. This journal publishes manuscripts of research articles and studies related to Biology, including Zoology, Botany, Genetics, Microbiology, Ecology, and Applied Biology.
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Link Address: <https://journal.uny.ac.id/publications/ijobi/index>

Address:

The Biology Study Program, Department of Biology Education, Faculty of Mathematics and Natural Sciences, State University Yogyakarta Jl. Colombo Yogyakarta No. 1, KarangMalang, Caturtunggal, District. Depok, Sleman Regency, Yogyakarta Special Region 55281

2. Course System

Bachelor Program (S1) Biology is a study program that has a minimum study load of 146 credits with an education time of 8 semesters.

A. Academic Guidance

After being accepted as a UNY student, the Department will appoint an academic advisor/supervisor, also called a guardian lecturer, for each student. Initial guidance will be carried out classically, while subsequent guidance will be carried out 3-4 times each semester individually. The scope of academic guidance includes:

1. Consultation on taking courses at the beginning of the semester
2. Monitoring learning progress in the middle of the semester
3. Evaluation of lecture results at the end of the semester
4. Consultation services for students who have problems
5. Provide guidance in selecting and proposing scholarships
6. Direct students in participating in activities outside campus (international seminars).

Students also need to consult with academic advisors when taking Educational Practical Practices (PK), Community Service Program (KKN), or Thesis (TAS). Academic advisor lecturers can be found in their respective work rooms by making an appointment first.

B. Semester Credit System

The credit system is the provision of education by stating the burden of student studies, the workload of teaching staff, and the burden of administering educational institutions in the form of credit. By using this system, each student can plan how to fulfill their entire study load by considering their personal abilities, talents and interests. The credit system also makes it easier for transfers (transfer) credit between departments or between faculties within one university, even between universities.

Semester is a unit of time for an effective learning process for 16 (sixteen) weeks excluding final semester exams. In accordance with the regulations of the Chancellor of Yogyakarta State University, three semesters are held throughout one academic year, namely:

1. Odd semester: September to January of the following year.
2. Even semester: February to June of the current year.

3. Short/intermediate semester: July to August of the current year.

All the learning that every student must undergo to complete the undergraduate level is carried out in various forms of educational activities, namely lectures, practicums, seminars, practical field work (PKL), real work lectures (KKN), and writing final assignments. The implementation of education at UNY is based on the Semester Credit System (SKS), so that each educational activity is measured in standardized study load units, namely semester credit units (sks).

The time allocation required to undertake educational activities of one credit a week is as follows.

Types of Learning	Time Allocation 1 credit in 1 week
Theory (Lecture), tutorial	50 minutes of face-to-face learning 60 minutes of structured learning assignments 60 minutes of independent learning
Seminar	100 minutes face to face 70 minutes of independent activity
Practicum, workshop practice	170 minutes (including preparation of reports/responses)
Research and community service	170 minutes (including preparation of proposals and reports)

C. Student Study Load

The student's study load each semester is determined by considering the student's individual abilities and the average study time a day. If a student is considered to work normally for 9 hours per day, then in one week there is around 54 hours or 3,240 minutes of study time available. By looking at the time allocation of 1 credit which is equivalent to 170 minutes, it is obtained that the student study load under normal conditions is 20 credits per semester. The individual abilities of each student are

measured through the Achievement Index (GPA) in the previous semester, with the following conditions

Semester Achievement Index previously	Maximum Study Load
More than 3.00	24 SKS
2,50 – 3,00	22 SKS
2,00 – 2,49	20 SKS
Less than 2.00	18 SKS

Determining the study load taken by students in a semester needs to be consulted with the academic advisor lecturer. Fulfilling the maximum study load can be done by adding courses as long as classes are still available and the prerequisites have been met.

D. Courses

Characteristics of the Biology Study Program Curriculum are:

- 1) The structure of the biology curriculum covers the main areas and options/interests.
- 2) The main fields include university courses, faculty courses and study program courses.
- 3) Areas of choice/special interest include: zoology, botany, microbiology and biotechnology, and environmental fields. Elective courses can be chosen between fields with a greater number of credits in the field that is in accordance with the Final Thesis Project.
- 4) Number of credits: 146-156 credits (university courses: 16 credits, faculty courses: 4 credits, study program courses: 90-96 credits, and outside study program courses 36-40).

- 5) Lectures are in the form of theory which is separated from lab work with the same topics.

The Merdeka Belajar-Kampus Merdeka curriculum has a structure in the following course groups.

- 1) The Main Course Group is a number of courses to meet the main Graduate Learning Outcomes (CPL) in the Study Program, which consists of basic university courses, basic professional courses, faculty courses and Study Program courses (field study). This course can also be taken outside of UNY by credit transfer scheme.
- 2) Additional Course Groups are a number of courses to meet additional Graduate Learning Outcomes (CPL), consisting of advanced lectures and excellent lectures/characteristics/interest of study programs.
- 3) Courses outside the Study Program inside UNY and outside UNY are students' elective courses to meet the main and additional CPL achievements taken inside and outside UNY.

E. Registration and Payment of Education Fees



Towards the start of the new semester (December/May/July), students are expected to monitor information on payment dates for education fees in the form of Single Tuition Fee (UKT) at Yogyakarta State University.

1. Payment can be made according to schedule online (online) at Bank BTN, Bank BNI, or Bank Mandiri, Branch offices/Cash Offices throughout Indonesia, or Bank BPD DIY DIY Branches/Cash Offices, by stating the Student Identification Number (NIM).
2. Students who have finished their studies and will only undergo Judiciary at the start of the semester can submit a request not to pay tuition fees/UKT to the Deputy Dean I and submit it to the PNPB Subdivision of the Finance and Accounting Section and the Registration and Statistics Subdivision at the UNY Rectorate complex. If the Judicial date exceeds the specified limit (is postponed), the student must report back to the PNPB Subdivision

of the Finance and Accounting Section and pay the tuition fees/UKT for that semester.

3. If there are problems with the payment process (for example, difficulty knowing the amount of the bill, differences in the amount of the bill, etc.), students are asked to contact the UNY Finance and Accounting Department at the UNY Rectorate Building, 3rd floor, west wing, telephone (0274) 552558 **before the deadline for payment of education fees/UKT.**

Following are the steps for paying education fees at UNY using a BNI ATM:

<ol style="list-style-type: none"> 1. Prepare a BNI ATM/debit card. Make sure the balance in the account is still sufficient. 	
<ol style="list-style-type: none"> 2. After entering the card and PIN into the BNI ATM machine, select OTHER MENUS. 3. Select PAYMENT 4. Use options NEXT MENU until the options appear UNIVERSITY. Select UNIVERSITY. 5. Select STUDENT PAYMENT CENTER (SPC) 6. Enter the UNY educational institution code (8015) followed NIM you. 	

7. Information will appear on the screen in the form of the student's name, NIM, faculty, and the amount of the bill. If the information is correct, select it **YES PAY**.
8. Select the type of account used to pay. 9. Transaction is complete. The ATM machine will issue proof of payment. Save the evidence that well.



Students who do not register by paying educational fees until the payment deadline expires will have their status processed **college leave**. Further provisions regarding lecture leave can be seen on page 20.

F. Filling in the Study Plan Card

Students who have registered are entitled to take part in educational activities in that semester. Therefore, students must design learning activities in the next semester by filling in the Study Plan Card (KRS) online in your account **SIKAD** (<https://siakad.uny.ac.id/>). The KRS filling process is as follows.

1. Students are required to ask for consideration and approval from the Academic Advising Lecturer before completing the KRS online, regarding courses and number of credits.
2. Students open a SIKAD account with their respective email and password. Furthermore, during the KRS filling period, the system will display a list of courses available for that semester, along with the name of the lecturer, lecture schedule, and remaining student capacity. Students can choose the courses they want to take. Automatically, the SIKAD system will limit the number of course credits that can be taken based on the previous semester's GPA achievements.
3. Academic advisors provide online approval regarding the number of credits taken by students for the semester that will be undertaken based on the GPA achieved in the previous semester.

4. Students can cancel courses taken in the current semester no later than the 8th (eighth) week starting from the first week of lectures with the approval of the online PA lecturer.
5. Students can add a maximum of one course in the current semester no later than the 3rd (three) week starting from the first week of lectures provided that it does not exceed the maximum study load allowed in one semester.

The inclusion of courses in the KRS gives students the right to take the Final Semester Examination (UAS). A student is only permitted to take the UAS for the courses listed in his KRS.

G. Lectures

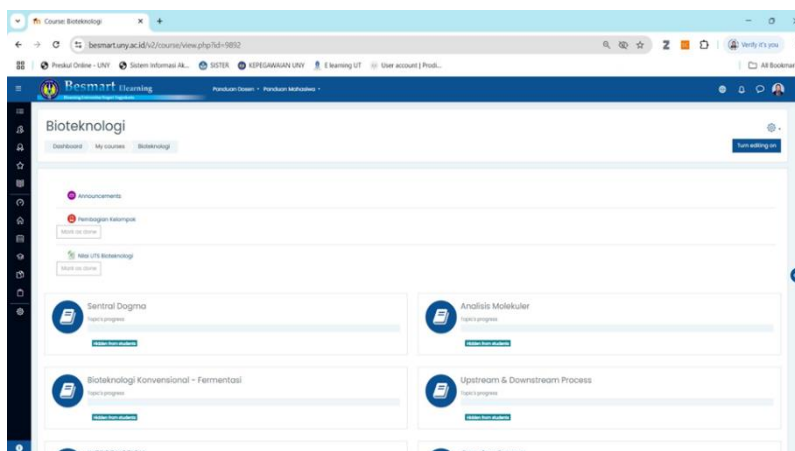
At the first meeting or face-to-face meeting for each course, the lecturer will generally explain the course description, syllabus, handbook/reference, learning strategies, and assessment system. Next, the lecturer and students will sign a lecture contract, which contains the frequency of assignments, quizzes, additional exams, and the minimum attendance and assessment weight agreed between the lecturer and students. Lectures can be held face to face or in person blended, namely a combination of direct face-to-face and online learning.

Direct Face-to-Face Lectures

Face-to-face lectures are conducted in the lecture rooms available at UNY's Faculty of Mathematics and Natural Sciences. When attending lectures, students must be present on time and comply with the FMIPA UNY lecture rules and regulations as agreed in the lecture contract. Attendance for face-to-face lectures is carried out online via <https://siakad.uny.ac.id/presensi>.

Studying with E-Learning

Online lectures at the UNY Department of Mathematics Education are carried out via the website <https://besmart.uny.ac.id/v2/>. After logging in by entering your UNY email account and password, Users can choose faculties, study programs and courses. In each course, various files are available (videos, material summaries,handout) which students can download. Students can also take quizzes online.



View of the online lecture site at UNY

Online lectures can also be combined with face-to-face lectures, which is known as a methodblended learning.

H. Assessment and Testing

Assessment of students' abilities in a course is carried out through course achievement assessments (CPMK) and final semester exams. CPMK assessments can come from individual and group assignments, quizzes and projects, as listed belowmodule handbook each course. The Final Semester Examination (UAS) is an examination whose implementation is scheduled according to the academic calendar. The UAS schedule and location are announced on the FMIPA website and notice board. Each maximum student only takes two exams in one day.

The final grade (NA) obtained by students for a course (MK) is an accumulation of the grades obtained per learning sub-achievement and the final semester exam (UAS), with the weights determined inmodule handbook. The final score is expressed in letters and numbers based on the range of scores obtained according to the table below.

(Scale 0 – 100)	Mark	
	Letter	Number
86 – 100	A	4,00

81 – 85	A-	3,67
76 – 80	B+	3,33
71 – 75	B	3,00
66 – 70	B-	2,67
61 – 65	C+	3,33
56 – 60	C	2,00
41 – 55	D	1,00
0 – 40	AND	0,00

Students who have not completed and submitted assignments related to the subject in question will not be given a grade and will be marked K on the grade list. The K mark can be changed to the proper grade if the student has completed and submitted the assignments within a maximum period of one semester. If the assignment is not fulfilled, students will receive a grade according to the existing assignment/component achievements.

The final grades for each student can be accessed at <https://siakad.uny.ac.id/> by logging in using each student's account. Based on the final grades, the Semester Achievement Index (IP) can be determined by: the number of letter grades that have been transferred to numerical grades/weights multiplied by the number of course credits divided by the number of credits taken by the student concerned in a particular semester.

Students who are not satisfied with their grades can submit a complaint to the lecturer by bringing supporting evidence. The lecturer checks the document, and decides whether changes in grades need to be made. Lecturers can change grades directly through SIAKAD as well as

submit minutes of grade complaints to the head of study program, which is copied to the dean. Applications for grade complaints can also be submitted through the Study Program management, which will then be reviewed and reviewed for the need for reassessment. The administrator will contact the lecturer concerned and discuss changes in grades.

The Achievement Index influences the number of credits that students can take in the next semester. It is hoped that students can know the maximum number of credits that can be taken in the next semester and can use the exam results to consider the courses they will take in the next semester.

I. Lecture Leave

To apply for leave, a Biology Undergraduate Study Program student must meet the following requirements:

1. Have studied for a minimum of one semester, with at least 10 credits and an achievement index of at least 3.00.
2. Not a scholarship recipient.
3. Have not exceeded the limit for the number of study leaves.

Provisions for the implementation of lecture leave:

1. Lecture leave is not counted as a study period and you are not required to pay educational fees.
2. The permitted length of study leave is 2 (two) semesters while studying.
2. Students who do not register at the start of the semester will be processed for college leave automatically.
3. Study leave is automatically granted a maximum of two times as long as the student still has the right to study leave.
4. Students who are on leave from college do not have the right to obtain academic services and utilize academic facilities.
5. Students who have already registered can apply for leave from study and cancel their study plans, but the educational fees that have been paid cannot be withdrawn.
6. If after taking study leave for two consecutive semesters, students do not register in the following semester, then the semester during study leave is counted as a study period. If a

student wants to re-register, the student must pay the tuition fees for the previous and future semesters.

7. Students who have taken leave from college for two consecutive semesters and do not register in the following two semesters in a row are declared to have resigned as WA students and are entitled to obtain a certificate of having attended college (SKPK).

Applications for study leave are made via <https://eservice.uny.ac.id/> with the appropriate procedures established and submitted each semester according to the established schedule.

J. Transfer and Transfer of Credit

Provisions regarding credit transfer or credit transfer (recognition of courses taken by students outside UNY), study program transfer (student transfer from one study program to another study program at UNY), to university transfer (student transfer from UNY to another university) has been regulated in detail in Chancellor's Decree no.1 of 2019 concerning Academic Regulations.

K. Community Service Program (KKN)

Community Service Program (KKN) is a course with a weight of 3 credits and has status **must pass** for all UNY undergraduate students as a form of community service (PPM). The implementation of KKN is interdisciplinary and at the same time integrates education, research and community service activities. Through KKN, students are exposed to the community so that what happens is a mutual give and take between the two.

There are four types of KKN held at UNY. **Integrated KKN** is a KKN activity carried out in an integrated manner with PPL at schools in special semesters. **Community KKN** is a KKN carried out in communities, both rural and urban, in special semesters. **Independent KKN** is a KKN held in the community in odd and even semesters. **Thematic KKN** is a KKN with a specific theme determined by UNY, regional government, central government, or state institutions.

The process of implementing KKN in a special semester generally consists of three stages as follows.

Level	Information
Preparation	Feasibility study and licensing of KKN locations. Student registration, group formation. Providing students who are prospective KKN participants.
Implementation	Departure of students participating in KKN. Guidance by lecturers at KKN locations. Monitoring the implementation of KKN by the team.
Evaluation	Evaluation of program success and implementation. Preparation of individual, group and team reports. Follow up on KKN results.

Further information regarding KKN and complete guidance can be obtained through website: <https://kkn.mkpk.uny.ac.id/>.

L. Judicium and Graduation

To be declared graduated, an undergraduate student at UNY must meet the following requirements.

1. Have passed at least 146 SKS subjects, consisting of all compulsory subjects plus optional subjects according to the applicable curriculum.
2. Have an achievement index of at least 2.50.
3. The maximum number of credits for courses with a D grade is 10% of the total number of credits.
4. Does not have an E value
5. Have English language skills with a minimum ProTEFL score of 425.

Students who have fulfilled the requirements mentioned above are allowed to register for the judicium, namely the process of determining students' grades and passing the entire academic process. Judicium can also be understood as announcing grades to students as a final assessment

process for all courses taken by students, determining grades on academic transcripts, and determining whether or not students have passed status. Judicium decisions are taken in a judicial meeting held by the Faculty Senate and expressed in the form of a Dean's Decree. Judicium is held every month in each faculty. The Judicium Process also determines a student's graduation predicate according to the following table.

Predicate	GPA	Study period
With the highest praise (With highest praise)	4,00	4.0 years
With compliments (Cum laude)	3,51-4,00	≤ 4.5 years
Very satisfactory (very satisfactory)	3,01-3,50	-
Satisfying (satisfactory)	2,50-3,00	-

To be able to take part in the judiciary, students need to prepare files consisting of :

1. Study Result Document (DHS)
2. Theory Free Certificate

The Study Results Document and Theory Free Certificate must be signed by the academic supervisor (PA) and the Head of the respective Department.

3. Library Borrow Free Certificate

A certificate of free library borrowing must be obtained from the UNY Library UPT and the UNY Mathematics and Natural Sciences Faculty Library. For UNY Library UPT, students can obtain the letter online via <http://library.uny.ac.id/member/login/>, after completing the obligation to return all books and upload the final thesis manuscript. Guidelines for uploading final assignment manuscripts can be seen at <https://eprints.uny.ac.id/62905/1/panduan.pdf>.

The judicial registration procedure is as follows:

1. Students who have fulfilled all the requirements take the judicial registration form at the Education Subdivision, Faculty of Mathematics and Natural Sciences (Locker D15 building, 1st floor).
2. Students fill out the judicial registration form, then ask for an endorsement signature from the Head of the Study Program.
3. Students submit the form back to the Education Subdivision by submitting the requirements in the form of a Study Results Document (DHS), proof of payment of last semester's education fees, approval from the Academic Advisor Lecturer, Theory Free Certificate, Library Borrow Free Certificate, and Borrow Free Certificate laboratory equipment.
4. Students register for judicium online via account **SIAKAD** (<https://siakad.uny.ac.id/>) respectively.
5. Students check the draft diploma and draft transcript, especially when writing their name, date of birth and course grades. Writing errors, if any, must be revised immediately.
6. Students pay graduation fees and graduation fees at the same time.
7. Students take part in the Judiciary ceremony.

The judicium ceremony is held by the faculty and must be attended by all students who have registered for that month. Judicial participants must arrive on time in the specified clothing (white shirt top, black trousers/skirt bottoms, black formal shoes, not shoes that's sport). Judicial participants who are unable to attend will be included in the following month's judiciary.

Graduation is the final process in a series of academic activities at higher education. As a sign of confirmation of the completion of the study, an inauguration procession was held at the UNY open senate meeting. Graduation is held by the University four times a year, namely in February, May, August and November.

3 Biology Undergraduate Study Programs

A. Vision

In 2025, the Biology Study Program of FMIPA UNY will become an international biology institution and is aiming to produce Bachelors of Biology who are devout, independent, intellectual, creative, innovative, and globally insightful.

B. Mission

The Biology Study Program of FMIPA UNY carries out the mission of:

1. Organizing undergraduate Biology education based on devotion, independence, intellectuality, and global insight.
2. Carrying out research and development of Biology and its application.
3. Opening community service services in the field of Biology.
4. Developing entrepreneurship in the field of Biology.

C. Goals

Based on the vision and mission of the Undergraduate Biology Study Program, the vision and mission of FMIPA, vision and the mission of Yogyakarta State University, the Indonesian National Qualifications Framework (KKNI), National Higher Education Standards (SN Dikti), and several regulations related, the objective of the Biology Study Program of FMIPA UNY is to produce Biology graduates who have competencies as:

1. Bachelor of Biology who has religious values, humanity, and concern for the environment.
2. Bachelor of Biology who has the qualifications and competence as an excellent, creative and innovative research assistant who can play a role in local, national, and global communities by upholding academic norms, values, and ethics.
3. Bachelor of Biology who is able to apply biological sciences to improve the quality of society's life and the environment.
4. Bachelor of Biology who is able to make a career and create job opportunities / entrepreneurship in the field of biology which also contribute to the community in an accountable and credible manner.

D. Graduate Profile

The profile of graduates of the UNY Biology Undergraduate Study Program is as follows:

No.	Graduate Profile	Description of Graduate Profile
1	Biologists	Having excellent qualifications and competencies, creative and innovative as Biologists while upholding the values of piety, independence, and intellectuality. Graduates in Biology can also work in government or private agencies or institutions related to the field of biology, such as in the Ministry of Forestry and Environment, Environmental NGOs, Health Offices, etc., or as educators
2	Biology research assistant	<p>Able to conduct research that can contribute to solve biological problems with solutions based on local wisdom.</p> <p>Research assistants in various agencies or institutions related to the field of biology, such as BRIN</p>
3	Entrepreneurs in the field of Biology.	<p>Having insight and competence in entrepreneurship either independently or in team in the field of Biology also being in which able to contribute to the community in an accountable, credible, and transparent manner.</p> <p>Become an entrepreneur related to the field of biology, both in service, such as consultants for the preparation of scientific documents related to biology, as well as production of goods such as applied biological products in agriculture, fisheries, and health</p>

E. Graduate Learning Outcomes (CPL)

Every Undergraduate Graduate of the Biology Study Program should achieve Graduate Learning Outcomes (CPL) which are presented in the following table.

Learning Outcomes domains according to SNPT	Main Learning Outcomes of the Biology Study Program	
Attitude	CPL 1	Have religious values, humanity, and concern for the environment.
	CPL 2	Have a sense of nationalism and responsibility to the state by contributing to improving the quality of people's lives in civilization based on Pancasila.
	CPL 3	Obeying the law and discipline in social and state life, by internalizing academic values, norms, and ethics.
	CPL 4	Adaptive, creative, and innovative in applying biological sciences and related sciences.
Knowledge	CPL 5	Mastering the structure of biological science in depth (core biology) to solve problems faced in the field of biology (problem solving) and mastering other related sciences.
	CPL 6	Mastering biological laboratory techniques and equipment, as well as mastering the scientific methodology of biology used to obtain biological knowledge (how we know what we know).
General Skills	CPL 7	Have the managerial ability to supervise and evaluate workers under their responsibility, as well as optimize cooperation networks to develop professionalism.
	CPL 8	Have scientific skills as a support for public speaking skills in local, national, and international forums.
Special Skills	CPL 9	Skilled in applying biological techniques in the laboratory and daily life.

CPL 10	Skilled in utilizing local potential according to special interest in the study of biological sciences.
CPL 11	Able to have a career and create job opportunities / entrepreneurship in the field of biology.

F. Course Structure

Students are declared to have passed and have the right to hold a Bachelor of Science (S.Si.) Biology degree by completing studies according to the following details.

PATTERN 512

SEMESTER 1

No	Code	Courses	Credits			
			T	P	F	S
1	MKU6201	Islamic Education ¹⁾	2			2
	MKU6202	Catholic Education ¹⁾				
	MKU6203	Christian Education ¹⁾				
	MKU6204	Hindu Education ¹⁾				
	MKU6205	Buddhist Education ¹⁾				
	MKU6206	Confucian Education ¹⁾				
2	MKU6216	Social Literacy and Humanity	2			2
3	MKU6212	Digital Transformation	2			2
4	MKU6207	Civic Education	2			2
5	FMI6202	Statistics	2			2
6	BIO6201	Plant Anatomy	2			2
7	BIO6102	Lab Work of Plant Anatomy		1		1
8	BIO6203	Plant Morphology	2			2
9	BIO6104	Lab Work of Plant Morphology		1		1
10	BIO6205	Invertebrates Biology	2			2
11	BIO6106	Lab Work of Invertebrates Biology *)		1		1
12	BIO6207	Biochemistry	2			2
13	BIO6108	Lab Work of Biochemistry		1		1
SUM			18	4	-	22

SEMESTER 2

No	Code	Courses	Credits			
			T	P	F	S
1	MKU6208	Pancasila	2			2
2	MKU6209	Indonesian Language	2			2
3	BIO6209	Animal Anatomy and Histology	2			2
4	BIO6110	Lab work of Animal Anatomy and Histology		1		1
5	BIO6211	Vertebrates Biology	2			2
6	BIO6112	Lab Work of Vertebrates Biology *)		1		1
7	BIO6213	Plant Systematics	2			2
8	BIO6114	Lab Work of Plant Systematics		1		1
9	BIO6215	Plant Physiology	2			2
10	BIO6116	Lab Work of Plant Physiology		1		1
11	BIO6217	Cell and Molecular Biology	2			2
12	BIO6118	Lab Work of Cell and Molecular Biology		1		1
13	BIO6219	Biometrics	2			2
14	BIO6120	Lab Work of Biometrics		1		1
SUM			16	6		22

SEMESTER 3

No	Code	Courses	Credits			
			T	P	F	S
1	MKU6213	Creativity, Innovation and Entrepreneurship	2			2
2	BIO6221	Ecology	2			2
3	BIO6122	Lab Work of Ecology		1		1
4	BIO6223	Animal Physiology	2			2
5	BIO6124	Lab Work of Animal Physiology		1		1
6	BIO6225	Genetics	2			2
7	BIO6126	Lab Work of Genetics		1		1
8	BIO6227	Microbiology	2			2

9	BIO6128	Lab Work of Microbiology		1		1
10	BIO6229	Biotechnology	2			2
11	BIO6130	Lab Work of Biotechnology		1		1
12	BIO6231	Behavior of Organisms	2			2
13	BIO6232	Philosophy of Science	2			2
SUM			16	5		21

SEMESTER 4

No	Code	Courses	Credits			
			T	P	F	S
1	MKU6211	English	2			2
2	FMI6201	Insights and studies of mathematics and natural science	2			2
3	BIO6233	Environmental Science	2			2
4	BIO6134	Lab Work of Environmental Science		1		1
5	BIO6235	Plant Developmental Biology	2			2
6	BIO6136	Lab Work of Plant Developmental Biology		1		1
7	BIO6237	Bivariate Biological Research Methodology	2			2
8	BIO6138	Lab Work of Bivariate Biological Research Methodology		1		1
9	BIO6239	Marine Biology	2			2
10	BIO6140	Lab Work of Marine Biology *)		1		1
11	BIO6141	Plant Tissue Culture	1			1
12	BIO6242	Lab Work of Plant Tissue Culture		2		2
13	BIO6243	Human Biology and Nutrition	2			2
14	BIO6144	Lab Work of Human Biology and Nutrition		1		1
SUM			15	7		22

SEMESTER 5

No	Code	Courses	Credits			
			T	P	F	S
1	BIO6245	Animal Developmental Biology	2			2
2	BIO6146	Lab Work of Animal Developmental Biology		1		1
3	BIO6247	Multivariate Biological Research Methodology	2			2
4	BIO6148	Lab Work of Multivariate Biological Research Methodology		1		1
5	BIO6249	Soil Biology	2			2
6	BIO6150	Lab Work of Soil Biology		1		1
7	BIO6151	Microtechnique	1			1
8	BIO6252	Lab Work of Microtechnique		2		2
9	BIO6253	Evolution	2			2
10	BIO6154	Lab Work of Evolution		1		1
		Sub Total	9	6		15
11		Elective courses in study program				0-2
12		Elective Courses outside the Study Program in UNY				7
SUM						22-24

SEMESTER 6

No	Code	Courses	Credits			
			T	P	F	S
1		Elective Courses outside the Study Program in UNY				9-10
2		Elective Courses outside UNY				8-12
SUM						17-22

SEMESTER 7

No	Code	Courses	Credits			
			T	P	F	S
1	MKU6614	Community Service Program			6	6
2	PKL6601	Work Practice			6	6
		Elective Courses outside the Study Program in UNY				2-3
SUM					12	14-15

SEMESTER 8

No	Code	Courses	Credits			
			T	P	F	S
1	BIO6855	Undergraduate thesis		8		8
SUM				8		8

Distribution of Elective Courses (*Advanced*) Study Program

This course is a elective choice course inside and outside the study program, including biology science courses, research courses and entrepreneurship courses.

No	Code	Courses	CREDITS				SEMESTER		Prerequisite
			T	P	F	S	Odd	Even	
Botany Elective Course									
1	BIM6201	Ethnobotany	2			2		√	
2	BIM6102	Lab Work of Ethnobotany		1		1		√	
3	BIM6203	Phytohormone	2			2		√	BIM6215
4	BIM6104	Lab Work of Phytohormone		1		1		√	BIM6116
5	BIM6205	Plant Ecophysiology	2			2		√	BIM6215
6	BIM6106	Lab Work of Plant Ecophysiology		1		1		√	BIM6116
7	BIM6207	Phytoplankton	2			2	√		

8	BIM6108	Lab Work of Phytoplankton		1		1	√		
9	BIM6209	Phytopharmaceuticals	2			2	√		BIO6208, BIM6215
10	BIM6110	Lab Work of Phytopharmaceuticals		1		1	√		BIO6109, BIM6116
11	BIM6211	Plant Cultivation	2			2	√		
12	BIM6112	Lab Work of Plant Cultivation		1		1	√		
13	BIM6213	Economic Botany	2			2	√		MKU6232
14	BIM6114	Lab Work of of Economic Botany		1		1	√		MKU6232
Zoology Elective Course									
15	BIM6215	Animal Reproduction Technology	2			2		√	
16	BIM6116	Lab Work of Animal Reproduction Technology		1		1		√	
17	BIM6217	Endocrinology	2			2		√	BIO6217
18	BIM6118	Lab Work of Endocrinology		1		1		√	BIO6118
19	BIM6219	Ichthyology	2			2		√	BIO6209
20	BIM6120	Lab work of Ichthyology		1		1		√	BIO6110
21	BIM6221	Ornithology	2			2		√	BIO6209
22	BIM6122	Lab Work of Ornithology		1		1		√	BIO6110
23	BIM6223	Herpetology	2			2		√	BIO6209
24	BIM6124	Lab Work of Herpetology		1		1		√	BIO6110
25	BIM6225	Animal Biosystematics	2			2	√		BIO627, BIO620
26	BIM6126	Lab Work of Animal Biosystematics		1		1	√		BIO6108, BIO6110
27	BIM6227	Parasitology	2			2	√		
28	BIM6128	Lab Work of Parasitology		1		1	√		
29	BIM6229	Entomology	2			2	√		BIO6207
30	BIM6130	Lab Work of Entomology		1		1	√		BIO6108
31	BIM6231	Animal Livestock Production	2			2	√		
32	BIM6132	Lab Work of Animal Livestock Production		1		1	√		
33	BIM6233	Natural Food Technology	2			2	√		

34	BIM6134	Lab Work of Natural Food Technology		1		1	√		
Microbiology and Biotechnology Elective Course									
35	BIM6235	Microbial Ecology	2			2	√		BIO6213
36	BIM6136	Lab Work of Microbial Ecology		1		1	√		BIO6114
37	BIM6137	Industrial Microbiology	1			1	√		BIO6213
38	BIM6238	Lab Work of Microbiology Industry		2		2	√		BIO6114
39	BIM6239	Food Safety	2			2		√	BIO6213
40	BIM6140	Lab Work of Food Safety		1		1		√	BIO6114
41	BIM6241	Applied Microbiology	2			2		√	BIO6213
42	BIM6142	Lab Work of Applied Microbiology		1		1		√	BIO6114
43	BIM6243	Molecular Genetics	2			2	√		BIO6220
44	BIM6244	Bioinformatics	2			2	√		
45	BIM6245	Immunology	2			2	√		BIO6210
46	BIM6146	Lab Work of Immunology		1		1	√		
47	BIM6247	Bioremediation	2			2		√	
48	BIM6148	Lab Work of Bioremediation		1		1		√	
49	BIM6249	Enzymology	2			2		√	BIO6208
50	BIM6150	Lab work of Enzymology		1		1		√	BIO6109
Ecology and Environment Elective Course									
51	BIM6251	Population and Environmental Education	2			2		√	BIO6214
52	BIM6252	Biotropics	2			2		√	BIO6214
53	BIM6253	Agroforestry	2			2		√	BIO6214
54	BIM6154	Lab Work of Agroforestry		1		1		√	BIO6115
55	BIM6255	Environmental Health	2			2		√	BIO6214
56	BIM6156	Lab Work of Environmental Health		1		1		√	BIO6115
57	BIM6257	Environmental Management	2			2	√		BIO6214
58	BIM6158	Lab Work of Environmental Management		1		1	√		BIO6115
59	BIM6259	Biogeography	2			2	√		BIO6214
60	BIM6260	Waste Management Technology	2			2	√		BIO6214

61	BIM6261	Environmental Conservation	2			2	√		BIO6214
62	BIM6262	Limnology	2			2	√		BIO6214
63	BIM6163	Lab Work of Limnology Practicum		1		1	√		BIO6115
64	BIM6264	Planktonology	2			2		√	BIO6214
65	BIM6165	Lab Work of Planktonology		1		1		√	BIO6115
SUM						101			

G. Educational Internship

PKL, PI, and internships are field practice courses that involve student (intern) activities in an industry/business/workplace (DUDIKA) for a specific period of time, according to the curriculum. The essence of PKL, PI, and internships is to provide experience in applying and developing competencies through direct learning in the workplace (experiential learning), to acquire hard skills (skills, complex problem-solving, analytical skills, etc.), as well as soft skills (professional/work ethics, communication, collaboration, etc.), as well as entrepreneurial insight.

In accordance with UNY Rector's Regulation Number 5 of 2020 concerning the MBKM Curriculum for Undergraduate and Applied Undergraduate Programs at Yogyakarta State University, the PKL, PI, and Internship courses are worth 6-20 credits. In terms of credits, the learning process for one credit is 170 (one hundred and seventy) minutes per week per semester.

The internship implementation mechanism, from registration to assessment, is optimized by utilizing an online system using the Field Work Practice Information System (SIPKL) at <https://sipkl.lppmp.uny.ac.id>. This information system accommodates PKL, PI, and internship activities, from registration and partner data, administration, guidance, assessment, and collaboration documents.

H. Final Project

The final thesis assignment for students of the Biology Undergraduate Study Program is a mandatory course to pass in the form of a student's scientific writing which reflects their ability to carry out

processes and patterns of scientific thinking through research activities. This course weighs 6 credits and is taken in the fourth year.

The process of preparing a thesis in the Biology Undergraduate Study Program cannot be separated from the courses **Multivariate Biological Research Methodology** (BIO6247) which provides the basics of skills for literature study, research and writing procedures for scientific papers. Students who have fulfilled the requirements for taking a thesis (110 credits with a minimum GPA of 2.0) contact the academic advisor to ask for recommendations for writing a thesis. Recommendations and a brief description regarding the title of the final thesis assignment are consulted with the Biology Study Program Coordinator to determine the thesis supervisor.

Students contact the appointed supervisor to ask for the lecturer's approval. Next, students work on their thesis under the guidance of their supervisor, by filling in the final thesis assignment guidance card each time they are tutored. After the thesis has been completed, students can submit a request for the thesis examination.

A complete guide to writing/preparing a thesis can be downloaded at https://fmipa.uny.ac.id/sites/fmipa.uny.ac.id/files/Panduan%20Skripsi%202023_compressed_0.pdf. The process of proposing topics to proposing a thesis examination decree can be carried out online using the SIBIMTA information system (<https://bimbingan.uny.ac.id/>).

4. Student Activities and Organizations

To support self-development especially soft skill students, Yogyakarta State University (UNY) provides various activities and organizations, both at department, faculty and university levels.

A. Activities and Organizations at the Department Level

The Biology Student Association or what is often referred to as the Biology Association is one of the organizations at the FMIPA UNY faculty which includes students from the UNY Biology Education Department. Through Hima Biology, it is hoped that they can channel their talents, interests and be able to become facilitators for students to develop their knowledge and build relationships between students of the Department of Biology Education.

B. Activities and Organizations at the Faculty Level

Student activities and organizations at the UNY Mathematics and Natural Sciences Faculty level include the Student Advisory Council (DPM) and the FMIPA Student Executive Board. In connection with student interests and talents, there are several student activity units (UKM):

1. HANCALA Nature Lovers UKM
(<http://hancala.student.uny.ac.id/>).
2. UKM Islamic Spirituality HASKA
(<http://haska.student.uny.ac.id/>)
3. SCREW Theater UKM (<https://sekrup-uny.blogspot.com/>)
4. KSI MIST Research UKM
5. BIONIC Bird Watching UKM (<https://bionicuny.blogspot.com/>).

The secretariat of the above organization is located in the FMIPA UNY complex.

C. Activities and Organizations at the University Level

The Student Executive Body – Student Republic (BEM REMA), the Student Representative Council (DPM), and the Student Consultative Council (MPM) are student organizations at the Yogyakarta State University level. In addition, to accommodate student interests, talents and foster student achievement, there are a number of Student Activity Units (UKM) at the university level which can be grouped based on their scope as follows.

Field of Reasoning

To respond to developments in science and technology, UNY carries out special strategies to accommodate and develop all student potential and interests in the fields of science and technology. Reasoning activities at UNY include the following SMEs:

1. Research SMEs
2. UKM Student Press Institute "Expression"
3. UKM Radio "Magenta FM"
4. UKM Foreign Languages
5. Technology Engineering SMEs

Field of Arts

UNY develops student creativity and potential in the arts field through a number of UKMs:

1. UKM Family of Traditional Arts Students (Kamasetra)
2. UKM Student Choir (PSM) "Swara Wadhana"
3. Music UKM "Sicma"
4. Fine Arts and Photography UKM (Serufo)
6. UKM Literature and Theater Study Unit (Unstrat)

Sports Field

Developing sports skills for students aims to maintain student fitness and health and support UNY students' achievements in the field of sports. Sports activities are coordinated within the following SMEs:

- | | |
|---------------------|--|
| 1. Athletics UKM | 11. UKM Tae Kwon Do |
| 2. Chess UKM | 12. UKM Pecinta Alam Madawirna |
| 3. Swimming UKM | 13. UKM Bola Voli |
| 4. Archery UKM | 14. UKM Basketball |
| 5. Hockey UKM | 15. UKM Sepak Takraw |
| 6. Table Tennis UKM | 16. UKM Football |
| 7. Field Tennis UKM | 17. UKM Baseball-Softball |
| 8. Judo UKM | 18. UKM Marching Band Citra Derap Bahana |
| 9. UKM Pencak Silat | 19. UKM Badminton |
| 10. UKM Karate | |

Welfare and Special Interest Areas

Student development in this field is a vehicle for improving student welfare, both physically and mentally, as well as students' special interests.

1. UKM Unit Kegiatan Kerohanian Islam (UKKI)
2. UKM Christian Student Fellowship (PMK)

3. UKM Catholic Student Family Association (IKMK)
4. Hindu Dharma Student Family UKM (KMHD)
5. Racana WR Scout UKM. Supratman and Racan Fatmawati
6. UKM Indonesian Red Cross Volunteer Corps (KSR-PMI)
7. UKM Student Regiment (Menwa) "Pasopati"
8. Student Cooperative UKM "Kopma UNY"
9. UKM Entrepreneurship (KWU)

D. Cross-University Activities and Organizations

There are several cross-university Mathematics student organizations that can be a means of expanding relationships and increasing student experience, for example:

1. Ikatan Association Mahasiswa Matematika Indonesia (IKAHIMATIKA) (<https://ikahimatika.or.id/>)
2. Association of Indonesian Statistics Student Associations (IHMSI) (<https://twitter.com/ihmsi?lang=en>)

5. Supporting Facilities

Supporting facilities that can be accessed/utilized by students at the Department of Biology Education at UNY in accordance with applicable regulations include the following.

A. Library

Yogyakarta State University Library UPT provides various services for the UNY academic community and for the general public outside UNY. Online access to the UNY library's public catalog can be done via the website <http://library.uny.ac.id/sirkulasi/>, while direct access can be done in the Library building which is located about 150 meters to the east of the UNY Biology Education Department. The UNY library has also subscribed to various journals, both national and international, for example JSTOR, SPRINGER LINK, EBSCO, PROQUEST, and others, which can be accessed through a special internal network for UNY academics (<http://sso.uny.ac.id>).

Apart from that, UNY also has an Internal Repository which contains scientific work documents, theses, theses, dissertations, research and journals originating from the UNY academic community which can be accessed via the website <http://e.library.uny.ac.id/>. For theses, theses and dissertations, access to the complete manuscript can only be done in the library building.

Library services for academics majoring in Biology at UNY are also provided by the MIPA faculty library which is located on the 3rd floor of the FMIPA UNY Laboratory and Integrated Library building. All students from the Department of Biology Education, FMIPA UNY automatically become members of this library. Information regarding library catalogs and services is available at <http://library.fmipa.uny.ac.id/>.

B. Sports Facilities

The Yogyakarta State University (UNY) complex in Karangmalang has a number of sports facilities which are quite complete and can be used by students according to the provisions, for example :

1. Swimming pool
2. Sportsmart/Sports equipment shop
3. Sports dormitory
4. Tennis courtindoor
5. Archery range
6. Basketball court
7. Community Sports Park
8. Football and athletic fields
9. Fitness Center

C. Means of Worship

UNY Mujahidin Mosque with an area of 1,920 m² and can accommodate up to 3,500 worshipers, located right to the west of the Faculty of Mathematics and Natural Sciences/Department of Biology Education campus. This mosque, which has been renovated three times with initial architecture similar to the Nabawi Mosque, has become the center of worship for the Muslim academic community in the Department of Biology Education. Apart from that, there is an Al-Furqon prayer room in the UNY Mathematics and Natural Sciences Faculty complex.

Places of worship for various religions are not difficult to find around the UNY campus, for example the Ocean Star Chapel in Sagan, St. John the Apostle in Pringwulung, Indonesian Christian Church (GKI) Gejayan, Jagatnatha Sorowajan Temple, Poncowinatan Temple, and others.

D. Student and Multicultural Center (SMC)

The UNY Student and Multicultural Center (SMC) building is the center of UNY student activities which provides free space for creativity and interaction between students. Apart from rooms for university-level student organizations such as BEM and UKM, this three-story building is also equipped with a meeting hall and a spacious lobby. This facility is located 100 meters north of the Department of Biology Education/Faculty of Mathematics and Natural Sciences, UNY.

E. Banking Facilities

A number of banks that have branch/cash offices on the UNY campus include Bank BPD DIY and Bank BNI, both of which are located on Jalan Gejayan (around 400 meters east of the Biology Education Department). Apart from that, there are also Automated Teller Machines (ATMs) around the Biology Education Department, namely at the Kopma UNY Mini Market and UNY Plaza.

F. Food and Daily Needs

KOPMA UNY Cooperative Mini Market provides various student needs ranging from stationery and office supplies, daily equipment and supplies, snacks, drinks, to photocopying. Located 50 meters north of the Department of Biology Education/Faculty of Mathematics and Natural Sciences UNY.

Food Court UNY is a snack and food center that is beautifully arranged, complete with shady trees, ornamental plants, joglo buildings and a number of gazebos. It is very comfortable to use for eating various foods or having casual conversations. Located right to the east of the Department of Biology Education/Faculty of Mathematics and Natural Sciences, UNY.

Garden Cafe UNY is a food and drink stall which is very suitable for students to gather and discuss, and is equipped with a hot spot area,

LCD, projector and cable TV. Located 50 meters north of the Department of Biology Education/Faculty of Mathematics and Natural Sciences UNY.

Plaza UNY is a four-story building located 200 meters east of the Department of Biology Education/Faculty of Mathematics and Natural Sciences UNY. Plaza UNY consists of a minimarket that provides daily necessities, several food stalls, clothing, electronic repair services, and reflexology massage services.

G. Accommodation

UNY Hotel is a hotel located in the campus area, right next to UNY's Mathematics and Natural Sciences Faculty. This hotel offers comfort, cleanliness, friendliness and a strong academic feel. For students from outside the area, the communities around UNY (including the Karangmalang, Kuningan, Santren, Karangasem, Deresan, Mrican, Klebengan, and Samirono areas) provide boarding rooms with various facilities and prices.

H. Health Facilities

UNY Health Services (LK) is a technical implementation unit tasked with providing health services for students, lecturers and educational staff within UNY. Some of the services provided include health checks, medication, health consultations, simple laboratory tests (cholesterol, blood glucose, uric acid, pregnancy tests, blood group tests), examinations of pregnant women, First Aid services for Accidents (PPPK) in various activities. large scale, community service, and health education. This service can be contacted by telephone 0274-586168 ext. 1324.

Apart from health services, UNY also has a physical therapy clinic located to the west of UNY GOR. Physical therapy clinics treat various injuries, sprains, aches, and so on. This clinic is open from 09.00 to 17.00 WIB, and is served by professional therapists.

For students who need emergency and inpatient services, there are several hospitals around UNY, namely :

1. RSUP Dr. Sardjito, Jalan Kesehatan 1, Sendowo, Yogyakarta (\pm 2.5 km from FMIPA UNY).

2. Panti Rapih Hospital, Jalan Cik Di Tiro 30, Yogyakarta (\pm 1 km from FMIPA UNY).
3. Jogjakarta International Hospital (JIH), Jalan Pajajaran/Ring Road Utara 160 (\pm 4 km from FMIPA UNY).
4. Siloam Hospital Yogyakarta, Jalan Urip Sumoharjo (\pm 1.5 km from FMIPA UNY).
5. An-Nur Special Surgical Hospital, Jalan Colombo (\pm 500 m from FMIPA UNY).
6. Yap Hospital, Jalan Cik Di Tiro 5 (\pm 1.5 km from the UNY campus).

I. Counseling, Career and Legal Guidance

Counseling guidance and psychological welfare services for the UNY academic community are provided by the Guidance and Counseling Services Technical Implementation Unit (UPT LBK), located in Karangmalang Yogyakarta, telephone 0274- 589536, 386168 Psw. 314. This service can also be accessed online via <http://upt-lbk.uny.ac.id>. Face-to-face services are provided every Monday-Friday at 09.00-13.00 WIB or outside hours with prior agreement. Students can get counseling services (except psychological tests) for free.

Career development, including employment information, career guidance and consultation, as well tracer study, provided by the Career Development Center (Career Development Center/CDC) UNY via <https://alumniuny.id/>. Apart from that, CDC UNY also holds Job Fairs twice every year, which are attended by dozens of companies.

UNY also has a Legal Assistance and Consultation Services UPT which can be contacted by telephone 0274-586168 Psw. 420 or 0274 545097. Profiles and further information about this service can be accessed via the website <http://lkbh.uny.ac.id>.

J. Bookstore

Books published by UNY Press can be purchased at the UNY Bookstore, 3rd Floor of the UNY Plaza building, Jalan Colombo. General published books can be obtained at several bookstores around UNY, for example Social Agency, Toga Mas, and Gramedia. Cheap book markets,

which sell new and used books at negotiable prices, can be found in the Terban area (Jl. Kahar Muzakir) and Taman Pintar Yogyakarta (Jl. Sriwedani).

PERSONAL NOTE

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