



STUDENT HANDBOOK

BACHELOR OF SCIENCE IN BIOLOGY



**DEPARTEMEN OF BIOLOGY EDUCATION
FACULTY OF MATHEMATICS AND NATURAL SCIENCE
UNIVERSITAS NEGERI YOGYAKARTA**

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PREFACE

All praises belongs to Allah SWT for the overflow of mercy so the Students Handbook of Bachelor of Science in Biology (BSB), Faculty of Mathematics and Sciences (FMIPA), Universitas Negeri Yogyakarta (UNY) are well organized. The BSB students handbook is organized and intended as a guide for students and lecturers in biology and all the academic civitas in the UNY environment even for prospective students who want to continue their higher education in biology field. This Student Handbook contains a brief history of BSB, BSB's vision-mission, curriculum, support and assistance, and staff. Through this Student Handbook, hoped it can be used as reference material, guide, and also depict the process for the lecturing activities occurred.

Yogyakarta, July 2016

Bachelor of Science in Biology Team

Symbol of UNY



Explanation:

The symbol of UNY is in the form of a five-sided lotus flower with a blue base color. This symbol has the writing of Universitas Negeri Yogyakarta which is written in circular way with UNY's calligraphic writing, a picture of Garuda's wings in yellow. In the center of the symbol there is an image of a monument, with a fire-shaped mustaka in three pieces, stairs, chest, body, and pillar legs.

HYMNE OF UNVERSTAS NEGERI YOGYAKARTA

L.S: Heni Kkusumawati

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 OF UNIVERSITAS NEGERI YOGYAKARTA

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



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 -



- 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

I. BACHELOR OF SCIENCE IN BIOLOGY

A. ADDRESS

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Postal code : 55281

Telephone : +62 274 548203, +62274 568168 psw. 1396

Fax : +62 274 548203 (Fakultas MIPA)

Website : <http://biologi.fmipa.uny.ac.id>

B. BRIEF HISTORY OF BACHELOR OF SCIENCE IN BIOLOGY

The Department of Biology starts with B1 and B2 courses in Natural Sciences organized by the Faculty of Natural Sciences (FIPA) of Gadjah Mada University (UGM). On August 1, 1960 the Department of Biological Education opened at the Faculty of Pedagogy UGM, which on January 1, 1962 it entered the FKIP-B UGM. Starting May 21, 1964 the status of the UGM FKIP-B changed to FKIE IKIP Yogyakarta and apart from UGM and subsequently became the Faculty of Mathematics and Natural Sciences (FMIPA). Meanwhile the name of the study program changed into the Department of Biology Education. The Study Program that was owned at that time was only the Biology Education Study Program that had been established since 1984. After IKIP Yogyakarta was changed to Universitas Negeri Yogyakarta (UNY), with a wider mandate, based on the Decree of the Director General of Higher Education No.240 / DIKTI / Kep / 1997 Biology Study Program was established under the auspices of Biology Education FMIPA UNY. Department of Biology FMIPA UNY has two study programs, namely Biology Study Program and Biology Education Study Program, and has an integrated laboratory in one 3-story building, namely: (1) Microbiology, Biotechnology and Research Labs; (2) Lab. Botany; (3) Zoology Labs; (4) Ecology, Environmental Sciences, Basic

Biology, Animal House and Green House Labs; (5) Lab Workshop, Lab Engineering and ICT; and (6) Outdoor Lab. Each Laboratory is in charge of various practicum and research activities, both lecturer research and student research. The laboratory is also equipped with a library, computer and internet room, learning media workshop and room for microteaching clinics. The laboratory also has gardens and experimental ponds, Green House and Animal House which are used to support practicum, research and as a means for Income Generating.

C. VISION OF BACHELOR OF SCIENCE IN BIOLOGY

The vision of the Biology Study Program of UNY is that in 2025 the Biology Study Program becomes an international standard biology institution in its ability to produce superior and innovative undergraduate biology education based on piety, independence, and intellectuality

D. MISSION OF BACHELOR OF SCIENCE IN BIOLOGY

1. Facilitating human resources and infrastructure for the implementation of bachelor of science in biology who are pious, independent, intellectual and global-minded.
2. Facilitating HR and infrastructure for research and development in biology and its application.
3. Facilitating community service in the field of Biology and Biology Education.
4. Facilitating HR and infrastructure for the development of entrepreneurship in the field of Biology and Biology Education.
5. Facilitating the development of study programs that are accountable, credible, and transparent

E. OBJECTIVES OF BACHELOR OF SCIENCE IN BIOLOGY

1. Realizing biology education experts and biologists who are pious, independent, intellectual and global-minded who uphold the values of Pancasila.

2. Realizing the discovery, development and dissemination of science, technology in the field of Biological Education and Biology to support regional and national development, and contribute to solving global problems.
3. Realizing the implementation of community service and empowerment activities that encourage the development of the potential of humans, society and nature to realize the welfare of the community through the application of Biology and Biology Education.
4. Realizing the development of entrepreneurial spirit in the field of Biology and Biology Education
5. Realizing clean and accountable governance of the Department of Biology Education.

F. ORGANIZATIONAL STRUCTURE

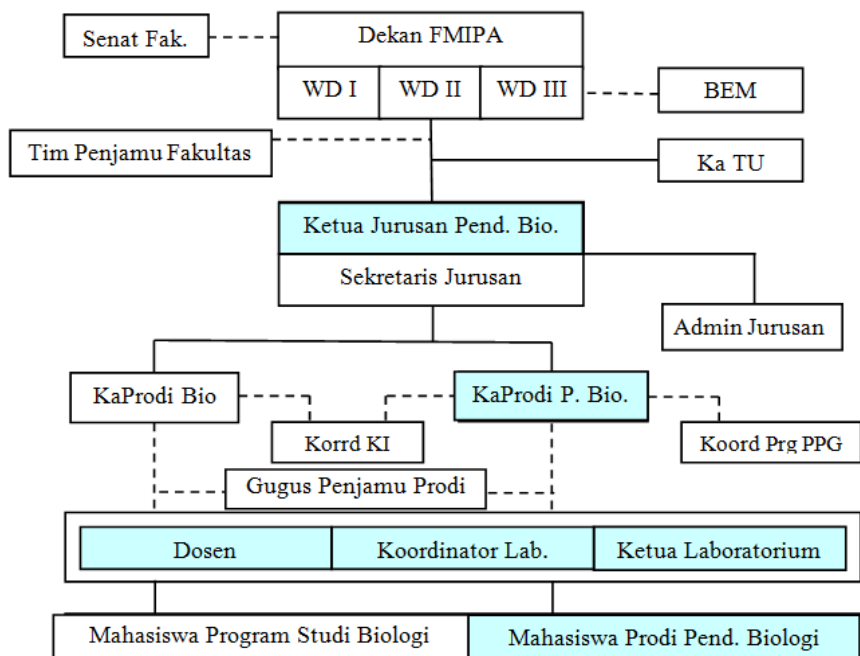


Figure 1. Organizational Structure

Details of Officials in organizational structure of the Biology Study Program can be seen in Table 1.

Table 1. Officials in the Organizational Structure of the Biology Study Program

No	Position	Name
1	Head of Department	Suratsih, M.Pd.
2	Secretary of the Department	Dr. Agung Wijaya Subiantoro
3	Head of Biology study program	Dr. Tien Aminatun
4	Quality Assurance Group	Rizka Apriani Putri, S.Si., M.Sc Atik Kurniawati, M.Pd
5	Head of the Zoology Laboratory Head of the Botanical laboratory Head of Biotechnology and Microbiology Laboratory Head of Ecology and Environmental Laboratory Head of Outdoor Learning Laboratory Head of Biology Education Laboratory	Tri Harjana, M. Budiwati, M.Si. Dr. Heru Nurcahyo Dr. Suhartini Sudarsono, M.Si. Rio Christy Handziko, M.Pd.
7	Teacher Professional Education Coordinator (PPG)	Yuni Wibowo, M.Pd.
8	International Class Coordinator	Ratnawati, M.Sc.
9	Administrative staff	Putri Festiani Cahaningrum, S.Si

G. FACILITY

The Biology Study Program has sufficient facilities to carry out its tasks and functions in educating prospective Bachelor of Biology. These facilities include the following.

1. E-learning

Lecture / assistance activities are available in adequate lecture buildings and are arranged centrally by the faculty. Lecture activities can already be done by e-learning, by accessing in the website: <http://besmart.uny.ac.id/v2/>.

2. Lecture and Laboratory Facilities

BSB has sufficient academic facilities and supporting academic activities provided by the faculty and university. Academic facilities include department offices, lecture halls, lecture rooms, thesis defense rooms, reading rooms, laboratories, experimental gardens, green houses, experimental plantations,

organic waste processing units, experimental animal management units, experimental pools, rooftop greenhouses, and mini forests. Academic facilities in study programs are shown in Table 4.4. Management of space use is under the control of the department/study program, but in terms of management, it belongs to the faculty. Supporting infrastructure is managed by the faculty, namely the Library (162 m²); Thesis Defense Room I (62.72 m²), Thesis Defense Room II (162.4 m²), Prayer Room (50 m²), and Biology Student Association Room (21 m²).

3. Library

BSB's library is in the faculty's library, as a branch of UNY's library. The faculty library is connected with the university library for online reference search (library.uny.ac.id). Library services have been increasingly enhanced by adding collections of books and online journals. Library visitors can access a number of subscribed online journals, for example, those from Garuda Ristekdikti, PROQUEST, EBSCO, JSTOR, and others (<http://e.library.uny.ac.id/>). Journals of the internal repository collection from UNY's research results (<https://journal.uny.ac.id>), student journals (<http://journal.student.uny.ac.id/ojs/>), and final assignments (<http://eprints.uny.ac.id>) are also available for students.

II. SYSTEM OF ACADEMIC LECTURE

A. TYPES OF VIOLATIONS AND ACADEMIC SANCTIONS

1. Academic sanctions can be imposed on students and lecturers who violate the provisions contained in this regulation.
2. Types of violations committed by students can be, as follows:
 - a. Late registration.
 - b. Does not meet the number of attendance lectures.
 - c. Cheating and / or forgery in the process of academic activities.
 - d. Plagiarism.
3. Academic sanctions can be imposed on students who commit violations in the form:
 - a. Verbal warning.
 - b. Written warning.
 - c. Not allowed to take the final semester exams.
 - d. Canceled the final grade that has been obtained from the course taken.
 - e. Not allowed to attend lectures for a certain time.
 - f. Did not get academic services within a certain period.
 - g. It is stated that he resigned as a student of UNY.
 - h. Revoked certificate diplomas that have been received.
4. Authorized to impose academic sanctions on students is the head of the study program, the head of the department, faculty / Postgraduate Program officials, and university leaders according to the type of violation.

B. 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 done classically, while the next guidance will be done 3-4 times each semester individually. The scope of academic guidance includes:

1. Consultation to take courses at the beginning of the semester,
2. Monitoring learning progress in the middle of the semester,
3. Evaluate the results of lectures at the end of the semester,
4. Consultation services for students who have problems,
5. Provide direction in terms of choosing and proposing scholarships,
6. Directing students to participate in activities outside of campus (international seminars).

Students also need to consult with academic advisors when taking Field Work Practices (PKL) and Final Projects. Academic advisors can be found in their respective workspaces by making an appointment in advance.

C. SEMESTER CREDIT SYSTEM

The credit system is the administration 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 design a way to meet the entire burden of his studies by considering his abilities, talents, and interests. The credit system also facilitates the transfer of credit between departments or between faculties in one college, even between universities.

Semester is a unit of effective learning process time of 16 (sixteen) weeks excluding the final semester exam. According to the Rector's Regulation of Universitas Negeri Yogyakarta, one academic year is held for three semesters, namely:

1. Odd semester: September to January of the following year
2. Even semester: February to June of the current year.
3. Short semester / between: July to August of the current year.

Overall learning that must be undertaken by each student to complete the undergraduate level is carried out in various forms of educational activities, namely lectures, practical work, seminars, field work practice (PKL), real work lectures (KKN), to writing the final project. The implementation of education at UNY is based on the Semester Credit System (SKS), so that each educational activity is measured by a standardized study load unit, namely the semester credit unit (credits).

The allocation of time needed to undergo educational activities of one credit per week is as follows.

Type of Learning	Time Allocation 1 credits in 1 week
Theory (Lecture), tutorial	50 minutes of face-to-face learning 60 minutes structured learning assignment 60 minutes of independent learning
Seminar	100 minutes face to face 70 minutes of independent activities
Practicum, workshop practice	170 minutes (including writing of report / response)
Research and service to the community	170 minutes (including writing of proposal and report)

For example, a student who takes a Differential Calculus course weighs 3 credits means he needs to spend 150 minutes each week attending lecture activities, 180 minutes to work on structured learning tasks (eg homework), and 180 minutes of independent learning (eg do practice questions, reread lecture notes, etc.).

D. STUDY LOAD OF STUDENTS

The study load of students each semester is determined by considering the individual abilities of students and the average study time in a day. If a student is

considered to work normally for 9 hours per day, then in one week there is a study time of around 54 hours or 3,240 minutes. By looking at the time allocation of 1 credit hour which is equivalent to 170 minutes, it is obtained that the student study load under normal conditions is 20 credit hours per semester. The individual abilities of each student are measured through the Achievement Index (IP) in the previous semester, with the following conditions

Table 2. Semester Achievement Index and Study Load that students can take

Previous GPA	Maximum Study Load
More than 3,00	24 credits
2,50 – 3,00	22 credits
2,00 – 2,49	20 credits
Less than 2,00	18 credits

The determination of study load taken by students in a seminar needs to be consulted with an academic advisor. Fulfilling the maximum study load can be done by adding courses as long as the class is available and the prerequisites are met.

E. ACADEMIC SUBJECTS

The curriculum of the Undergraduate Program in the Department of Biology FMIPA UNY is composed of a number of courses, with the respective weight stated in the credits. The amount of credits for each course is not the same, determined in accordance with the scope of the material and the burden of studying the course. By their nature there are two groups of courses:

1. Compulsory subjects, must be taken / followed by all students of a study program. There are compulsory courses organized by universities, faculties, and study programs. More than 75% of the courses taken by students are

compulsory subjects.

2. Elective courses can be selected according to the interests and talents of students to complete graduation requirements. Taking elective courses should also consider the theme of the final project that students want to compile.

Each course also has a course code consisting of three letters followed by four numbers. The three letter code shows the category of the course, i.e.:

MKU	Compulsory subjects at Universitas Negeri Yogyakarta
AMF	Compulsory subject of the Faculty of Mathematics and Natural Sciences UNY
BIM	Compulsory subject in Bachelor of Science in Biology
BIO	Compulsory subject in Departement Biology Education
PKL	Field Work Practice courses




A course can have a prerequisite, which is a condition that must be met before taking the course. The prerequisites can be in the form of the number of credits that have been taken, as well as obtaining certain minimum grades in other subjects.

Descriptions, learning outcomes, prerequisites, references, and assessment guidelines can be seen in the Module Handbook of each course at the following link:
<http://biologi.fmipa.uny.ac.id>

F. HEREGISTRATION AND PAYMENT

1. Payment of Tuition Fees/UKT.

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

<p>1. Prepare a BNI ATM / debit card. Make sure the balance in the account is still sufficient.</p>	
<p>2. After inserting the card and PIN into the BNI ATM machine, select MENU LAIN.</p> <p>3. Select PEMBAYARAN</p> <p>4. Select the option MENU BERIKUTNYA until the option UNIVERSITAS appears. Select UNIVERSITAS.</p> <p>5. Select STUDENT PAYMENT CENTER (SPC)</p> <p>6. Enter the UNY educational institution code (8015) followed your Student Number (NIM)</p>	
<p>7. Information will appear on the screen in the form of the name of the student, NIM, faculty, and the amount of the cost bill. If the information is correct, select YA BAYAR.</p> <p>8. Select the type of account used to pay.</p> <p>9. Transaction is complete. The ATM machine will issue proof of payment. Keep the proof of payment properly.</p>	

Students who do not register by paying tuition fees until the deadline for payment ends will be processed into college break status.

G. CREDIT FILLING INSTRUCTION

Students who have registered have the right to participate in educational activities during the semester. Therefore, students must plan their learning activities in the coming semester by filling out the Study Plan Card (KRS) through online on the account **SIKAD** (<http://siakad2013.uny.ac.id>). The credit filling process is as follows.

1. Students must ask for consideration and approval of Academic Advisor Lecturers before filling out KRS online, related to the course and the 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 during the semester, along with the name of the supporting lecturer, lecture schedule, and the remaining student capacity. Students can choose the course they want to take. Automatically, the SIKAD system will limit the number of credits of courses that can be taken based on GPA achievements of the previous semester.
3. Academic Advisors provide online approval regarding the number of credits taken by students for the semester to be undertaken based on the IP achieved in the previous semester.
4. Students can cancel courses taken in the current semester no later than the 8th week (eight) counted from the first week of lecture with the approval of online PA lecturers.
5. Students can add at most one course in the current semester no later than the 3rd week (three) counted from the first week of lecture provided that they do not exceed the maximum study load allowed in one semester.

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

H. COURSE IMPLEMENTATION

At the first meeting or face to face of each subject, lecturers generally will explain course descriptions, syllabi, handbooks / references, learning strategies, and assessment systems. Furthermore, lecturers and students will sign lecture contracts, which contain the frequency of assignments, quizzes, tests, and the minimum attendance and weight of the assessment agreed between the lecturer and the student. Lectures can be held face-to-face or blended learning, which is a combination of face-to-face and online learning.

1. Face-to-to Lecture

Lectures in the form of face-to-face are directly conducted in lecture halls available at the Faculty of Mathematics and Natural Sciences of UNY. In attending lectures, students must be present on time and obey the rules of lectures at the Faculty of Mathematics and Natural Sciences UNY as well as the rules of agreement in the lecture contract. Presence for face-to-face lectures is conducted online through <http://presensikuliah.uny.ac.id>.

2. Lecture with E-learning

Online lectures at the UNY Biology Education Department are conducted through the site <http://besmart.uny.ac.id>. After logging in by entering the UNY e-mail account and password, users can choose faculties, study programs, to courses. In each course, various files (videos, material summaries, handouts) are available for students to download. Students can also take online quizzes.

Online lectures can also be combined with face-to-face lectures, which are known as blended learning methods.

I. ASSESSMENT AND EXAMINATION

Assessment of student abilities in a course is carried out through

assessments per subject achievement (CPMK) and final semester exams. CPMK assessment can come from assignments both individually and in groups, quizzes, and projects, as listed in the module handbook for each course. The Final Semester Examination (UAS) is an exam whose implementation is scheduled according to the academic calendar. The schedule and location of the UAS implementation are announced on the web and FMIPA announcement board. Each student only takes a maximum of two exams in one day.

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

Table 3. Scoring Scale

NA (Scale 0 – 100)	Score	
	Alphabet	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	E	0,00

Students who have not completed and submitted assignments related to the subject matter, are not given a grade and the grades are given a K mark. The K mark can be converted to their proper grade if the student has completed and submitted assignments within a maximum period of one semester . If the assignment is not fulfilled, students will get grades according to the achievements of the tasks / components that already exist.

Final grades for each student can be accessed at <https://siakad2013.uny.ac.id>

no later than two weeks after the exam is held (before the registration period for the next semester) by logging in using the accounts of each student. Based on the final grade, the semester achievement index (IP) can be determined by: the number of letter grades that have been transferred to the value of the number / weight multiplied by the number of credits of the course divided by the number of credits taken by the student concerned in a particular semester.

Performance Index (GPA) influences the number of credits students can take in the next semester. So hopefully, students can find out the maximum number of credits that can be taken in the next semester and can use the value of exam results to consider what courses will be taken in the next semester.

J. COLLEGE BREAK

College break is not counted as a period of study and students are not required to pay tuition fees.

1. The permit requirements of college break for students are set as follows:
 - a. have taken a minimum of one semester of study, with at least 10 (ten) credits, and a minimum achievement index of 2.00 (two point zero zero) for S1 and D3 programs and 3.00 (three point zero zero) for S2 programs and S3.
 - b. not a scholarship awardee.
 - c. Not to exceed the limit on the number of college break.
2. The procedure for applying for college break is done online with the following stages.
 - a. Students enter data into SIAKAD UNY on the college break service menu.
 - b. The system sends copies of data contents in the form of e-mail to an academic advisor for approval.
 - c. The system sends copies of data entries in the form of e-mail to the head of department / head of the study program, the Vice Dean 1 as

the notification.

- d. The academic staff of UNY processes college break approval to the Rector.
 - e. UNY's academic section sends e-mail containing college break letters that have been signed by Rector to the proposing student with a copy to the academic advisor, Head of Department / Head of Study Program.
3. Students who do not register will be processed by their college break automatically by the academic department and the system will send a notification to the student concerned with a copy to the academic advisor, Head of Department / Head of Study Program, and Vice Dean 1.
 4. Automatic college leave is given at most 2 (two) times as long as the student concerned still has college break rights.
 5. If there are reasons that can be accounted for, students who have already re-registered can apply for leave of study and cancel their study plans in the current semester without refunding the tuition fees that have been paid.
 6. The allowable durations of college break are as follows.
 - a. The diploma program and PKS for 2 (two) semesters.
 - b. Undergraduate program for 4 (four) semesters, and
 - c. Masters and doctoral programs for 2 (two) semesters.
 7. Application for permission to take a leave of absence can be submitted every semester
 8. Successive college break is only allowed a maximum of 2 (two) semesters.
 9. In the case after a student leaves college for two semesters in a row and does not register in the following semester, the semester is counted as a period of study.
 10. If students as mentioned in point 9 will re-enroll, they are required to pay the tuition of the previous semester and the semester that will be taken.

11. Students who leave for two semesters in a row and have not done the registration in the two next semesters in a row is declared to resign as UNY students and they are given a certificate that show they have studied in UNY.

K. CREDIT TRANSFER

The provisions regarding credit transfer (by the recognition of courses taken by students outside UNY), transfer of study programs (transfer of students from one study program to another study program at UNY), to transfer of universities (transferring students from UNY to other universities)) has been regulated in detail in the Rector's Decree No. 13 of 2015 concerning Academic Regulations.

L. FIELD COMMUNITY SERVICE (KKN)

The Field Community Service (KKN) is a course with a weight of 3 credits and has the status of being required to be passed for all UNY S1 students as a form of community service (PPM). The Community Service Program character is interdisciplinary and at the same time integratng the community education, research and community service activities. Through KKN, the students are faced with the community so that there will be the nature of mutual give and take between the two.

There are four types of KKN which held at UNY. **Integrated KKN** is a KKN activity carried out in an integrated manner with PPL at school in a special semester. **KKN Masyarakat** is a program implemented in the community, both rural and urban, in a special semester. **Mandiri KKN** is a community service program that is held in the community in odd and even semester. **Thematic KKN** is a KKN with a specific theme determined by UNY, regional government, central government, or state institutions.

The KKN process in the special semester is basically consisted of three

stages, namely:

Table 4. KKN Implementation Stages

Stages	Information
Preparation	The study of feasibility and permission of KKN location. Student registration, group formation. Provision for student candidates for KKN.
Implementation	Departure of students. Guidance by lecturers at KKN locations. Monitoring the implementation of KKN by the team.
Evaluation	Evaluate the success and the implementation of the program. The compilation of individual, group and team reports. Follow-up of the KKN results.

For further information related to KKN and for complete guidelines can be accessed through LPPM UNY (<http://lppm.uny.ac.id>).

M. YUDISIUM AND GRADUATION

To be graduated, a Biology S1 study program student must meet the following requirements.

1. Have passed at least 144 SKS courses, consisting of compulsory courses plus elective courses according to the required curriculum.
2. Have a GPA of at least 2.50
3. The number of credit courses with a maximum D score of 10% of the total number of credits.
4. Does not have an E score
5. Have an English skill with a minimum ProTEFL score of 425.

Students who have fulfilled the requirements mentioned above are those who can apply for *Yudisium*, which is the process of determining students' grades and graduation from the entire academic process. *Yudisium* can also help as an added value for students as the final assessment process of the whole courses which have been taken by the students, determination of grades in academic transcripts, as

well as determining the status of student graduation. The Judicial Decision is taken at a judicial meeting held by the Faculty Senate and declared in the form of a Dean Decree. *Yudisium* is held every month in each faculty. The *yudisium* process is also a determination of the predicate of student graduation according to the following table.

Tabel 5. Stuent's Graduate Predicate

Predicate	GPA	Study Period
<i>Summa Cum Laude</i>	4,00	4,0 years
<i>Cum Laude</i>	3,51-4,00	4,5 years
<i>Very satisfactory</i>	3,01-3,50	-
<i>Satisfactory</i>	2,50-3,00	-

To be able to take part in the *Yudisium*, students need to prepare a file consisting of:

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

The Study Result Documents and Theory Free Certificate must be signed by the academic supervisor (PA) and the Head of the respective Departments.

1. Library Borrow Free Loan

A certificate of free lending from the library must be obtained from the UPT UNY Library and the UNY MIPA Faculty Library. For the UPT Library of UNY, students can obtain the letter online through <http://library.uny.ac.id/member/login/>, after completing the obligation to return all books and upload the final thesis script. The guidelines for uploading the final project script can be seen at https://eprints.uny.ac.id/62905/1/p_guides.pdf.

The procedures for registering *Yudisium* are as follows:

1. Students who have fulfilled all the requirements should take the *Yudisium* registration form in the Sub-Division of Education, Faculty of Mathematics and

Natural Sciences (Loket Building D15, 1st floor).

2. Students fill out the Yudisium registration form, then ask for an authorization signature from the Chair of the Study Program.
3. Students submit the form back to the Education Sub-Division by submitting the requirements in the form of Study Result Documents (DHS), proof of payment of the last semester's tuition fees, approval from the Academic Advisor Lecturer, Theory-Free Certificate, Library Loan-Free Certificate, and Loan-Free Certificate laboratory equipment.
4. Students register for the online graduation through their own SIAKAD 2013 account (<http://siakad2013.uny.ac.id>)
5. Students check the draft of diploma and draft transcript, especially on the name spelling, date of birth, and course grades. Writing errors, if any, must be immediately revised
6. Students pay Yudisium fees as well as graduation fees.
7. Students attend the Yudisium ceremony

The Yudisium ceremony is organized by the Faculty and must be attended by all students who have registered for the month of Yudisium. The participants should be arrived on time by wearing the clothes that have been determined (white shirt tops, long pants / black skirts, black formal shoes instead of sports shoes). The participants who are unable to attend will be included in the next month's Yudisium.

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

III. BACHELOR OF SCIENCE IN BIOLOGY

A. BIOLOGY EDUCATION STUDY PROGRAM VISION

By 2025 the Biology Study Program becomes an internationally excellent Study Program in its ability to produce Biology graduates who are devoted, intelligent, independent and globally insightful.

B. BIOLOGY EDUCATION STUDY PROGRAM MISSION

1. Becoming a center of Bachelor of Biology Education with piety, intellectuallism, independence and globally insightful.
2. Becoming a center of research and development in biology and its application.
3. Becoming a center of community service in the field of biology.
4. Becoming the center of the development of entrepreneurship in the field of Biology.

C. GOALS

The aim of the Biology FMIPA UNY S1 Study Program is to produce Biology graduates who has the following competencies:

- a. Biology Study Program graduates who care about the environment and hold the values of religiosity and humanity.
- b. Biology Study Program graduates who have certain qualifications and competencies as excellent, creative, and innovative research assistants and have an important role in local, national, and global society by holding academic norms, values, and ethics.
- c. Biology Study Program graduates are able to apply their Biology knowledge in order to improve people's lives and environmental quality.
- d. Biology Study Program graduates who are to work and create jobs / become entrepreneurs in the field of Biology and are able to contribute responsibly and credibly to the surrounding community

D. OCCUPATIONAL PROFILE

The occupational profile of the Biology Study Program produces graduates who are excellent, creative, and innovative, based on piety, independence, and intellectualism who are capable as researchers in the field of biology, and entrepreneurs in the field of biology. Detailed descriptions of each occupational profile can be seen in Table 6.

Table 6. Occupational Profile of Bachelor Degree Study Programme in Biology

No	Profession Field	Profession Field Description
1	Biology Research Assistant	Research assistants in various institutions related to the field of biology, such as LIPI
2	Biology Academics	Become an academic or work in government or private institutions in the field of Biology, for example: in the Ministry of Environment and Forestry, Environmental NGOs, and the Ministry of Health.
3	Biology Entrepreneurs	Being a businessman who deals with the field of Biology, both service and businesses, such as consultants on the development of scientific documents related to Biology, and business of goods production such as applied biological products in agriculture, fisheries, and health

E. PROGRAM LEARNING OUTCOMES

The formulation of graduate learning outcomes (Learning Outcomes Program / PLO) is adjusted to the Republic of Indonesia's Presidential Regulation (PPRI) N0. 8/2012 concerning KKN (Indonesian National Curriculum Framework), Indonesian Minister of Education and Culture Regulation number 49 of 2014 concerning National Standards of Higher Education, Permenristekdikti No. 44 of 2015 concerning SNPT (National Higher Education Standards). Therefore, UNY's Biology study program has the objective to produce graduates who have excellent, creative, and innovative competencies in attitude, knowledge, and special skills

based on piety, independence, and intellectuallism. The formulation of PLO Biology study program, FMIPA, UNY can be seen in Table 7.

Table 7. Program Learning Outcomes

Domain	Rumusan PLO
Attitude	1. Having religious, humanitarian, and environmental care values.
	2. Having a sense of nationalism and responsibility to the country by contributing to improve the quality of people's lives in a civilization based on Pancasila.
	3. Obeying the law and discipline in social and state life, by internalizing academic values, norms and ethics.
Knowledge	4. Mastering the structure of biology in depth (core biology) to solve problems faced in the field of biology (problem solving) and as knowledge in mastering other related sciences
Spesific Skill	5. Mastering biology laboratory techniques and equipment, biological scientific methodology used to obtain biological knowledge (how we know what we know)
	6. Being adaptive, creative, and innovative in applying biology and related sciences
	7. Skillfully applying biological techniques in the laboratory and everyday life
	8. Being able to have a career or create employment/entrepreneurship opportunities in the field of biology.
General Skill	9. Being able to have a career or create employment/entrepreneurship opportunities in the field of biology.
	10. Having a managerial ability to supervise and evaluate workers under his responsibility, and optimize the network

	of cooperation to develop professionalism.
	11. Having scientific skills to support the ability of public speaking in local, national, and international forums.

F. CURRICULUM

The Study Program Curriculum is developed based on and by considering:

- a. University vision and missions
- b. Vision, missions, objectives, and PLO of BSB
- c. The applicable laws and regulations, namely the Republic of Indonesia Presidential Regulation Number 8 Year 2012 on the Indonesian National Qualification Framework (NQF) as well as Research, Technology, and Higher Education Ministerial Regulation No. 44 Year 2015 on National Standards for Higher Education (NSHE)
- d. Evaluation of the previous curriculum
- e. Relevance to the demands and needs of stakeholders
- f. Input from stakeholders (lecturers, students, alumni, and alumni users)
- g. Extent, depth, coherence, and degree of integration of subjects and lecture activities
- h. Curriculum implementation monitoring

Curriculum review conducted every five years

The achievement of the PLO is done by lecturing activities that are distributed into compulsory subjects and elective courses. The curriculum of the Biology undergraduate program consisting of compulsory and elective courses with the number of credits can be seen in Table 8.

Table 8. Bachelor Degree Study Programme in Bology Curriculum

Course Type	Credits	ECTS	Information
Compulsory Course	132	216,88	-
Elective Course	12	19,72	Selected from 108 credits (177.45 ECTS) provided. Elective courses are grouped into 4 fields of study, namely zoology, botany, microbiology and biotechnology, and ecology and aquatic biology
Total	144	236,6	

G. COURSE DISTRIBUTION

The distribution of courses in each semester in Biolog study program is presented in

Table 9.

Table 9. Course Distribution

Smt	CODE	Course Title	Credits	SKS P	SKS L	SKS J	ECTS
I	MKU6301	Islamic Education	3			3	4,93
	MKU6302	Catholic Education	3				
	MKU6303	Christianity Education	3				
	MKU6304	Buddhism Education	3				
	MKU6305	Hinduism Education	3				
	MKU6306	Confucianism Education	3				
	BIO6201	Basic Biology	2			2	3,29
	BIO6102	Laboratory work in Basic Biology		1		1	1,64
	BIO6203	General Chemistry	2			2	3,29
	BIO6104	Laboratory work in General Chemistry		1		1	1,64
	BIO6207	Basic Mathematics	2			2	3,29
	BIM6201	Plant Anatomy	2			2	3,29
	BIM6102	Laboratory work in Plant Anatomy		1		1	1,64
	BIM6203	Plant Morfology	2			2	3,29
	BIM6104	Laboratory work in Plant Morfology		1		1	1,64
	BIM6207	Invertebrate Biology	2			2	3,29
BIM6108	Laboratory work in Invertebrate Biology		1		1	1,64	
II	MKU6214	Socio-cultural Educatio	2			2	3,29
	MKU6208	Pancasila	2			2	3,29
	MKU6210	Statistics	2			2	3,29
	BIO6205	General Physics	2			2	3,29

	BIO6106	Laboratory work in General Physics		1		1	1,64
	BIO6208	Biochemistry	2			2	3,29
	BIO6109	Laboratory work in Biochemistry Biochemistry		1		1	1,64
	BIM6209	Vertebrate Bology	2			2	3,29
	BIM6110	Laboratory work in Vertebrate Bology		1		1	1,64
	BIM6205	Anatomy and Histology of Animals	2			2	3,29
	BIM6106	Laboratory work in Anatomy and Histology of Animals		1		1	1,64
	BIM6211	Plant Systematics	2			2	3,29
	BIM6112	Laboratory Work in Plant Systematics		1		1	1,64
III	MKU6207	Civic Education	2			2	3,29
	BIO6210	Cell and Molecular Biology	2			2	3,29
	BIO6111	Laboratory Work in Cell and Molecular Biology		1		1	1,64
	BIO6214	Ecology	2			2	3,29
	BIO6115	Laboratory Work in Ecology		1		1	1,64
	BIO6227	Biometry	2			2	3,29
	BIO6128	Laboratory Work in Biometry		1		1	1,64
	BIM6217	Animal Physiology	2			2	3,29
	BIM6118	Laboratory Work in Animal Physiology		1		1	1,64
	BIM6213	Microbiology	2			2	3,29
	BIM6114	Laboratory Work in Microbiology		1		1	1,64
	BIM6219	Development Biology of Plant	2			2	3,29
	BIM6120	Laboratory work in Developmental Biology of Plants		1		1	1,64
	BIO6220	Genetics	2			2	3,29
	BIO6121	Laboratory Work in Genetics		1		1	1,64
	IV	AMF6201	Insight and Review on Science	2			2
MKU6211		English	2			2	3,29
MKU6212		Entrepreneurship	2			2	3,29
BIO6212		Mikology	2			2	3,29
BIO6113		Laboratory Work in Mikology		1		1	1,64
BIO6216		Environmental Sciences	2			2	3,29
BIO6117		Laboratory Work in Environmental Sciences		1		1	1,64
BIM6215		Plants Physiology	2			2	3,29
BIM6116		Laboratory Work in Plants Physiology		1		1	1,64
BIM6221		Development Biology of Animals	2			2	3,29
BIM6122		Laboratory work in Developmental Biology of		1		1	1,64

		Animals					
	BIM6230	Bivariat Biology Research Methodology	2			2	3,29
	BIM6131	Laboratory work in Bivariat Biology Research Methodology		1		1	1,64
	BIO6237	<i>English for Biology-1</i>	2			2	3,29
V	MKU6209	Indonesian Language	2			2	3,29
	BIM6232	Multivariat Biology Research Methodology	2			2	3,29
	BIM6133	Laboratory work in Metodologi Penelitian Biologi Multivariat		1		1	1,64
	BIM6226	Ecotoxiology	2			2	3,29
	BIM6127	Laboratory work in Ecotoxiology		1		1	1,64
	BIM6228	Soil Biology	2			2	3,29
	BIM6129	Laboratory work in Soil Biology		1		1	1,64
	BIM6124	Microtechniques	1			1	1,64
	BIM6225	Laboratory work in Microtechniques		2		2	3,29
	BIM6136	Excursion Study 1		1		1	1,64
		Elective Course				8	13,14
VI	BIO6225	Plant Tissues Culture	1			1	1,64
	BIO6126	Laboratory work in Plant Tissues Culture		2		2	3,29
	BIO6222	Evolution	2			2	3,29
	BIO6123	Laboratory work in Evolution		1		1	1,64
	BIO6224	Organism Behaviours	2			2	3,29
	BIO6218	Marine Biology	2			2	3,29
	BIO6119	Laboratory work in Marine Biology		1		1	1,64
	BIM6223	Biotechnology	2			2	3,29
	BIM6138	Laboratory work in Biotechnology		1		1	1,64
	BIM6235	Seminar and Scientific Paper Writing	2			2	3,29
	BIM6234	Philosophy of Science	2			2	3,29
VII	PKL6302	Work Practice (PKL)			3	3	4,93
	MKU 6313	Field Community Service (KKN)			3	3	4,93
VIII	BIO6629	Thesis Project			6	6	9,86
Credits Total						144	236,6

Table 10. Elective Courses

Code	Course Title	Credit T	Credit P	Credit L	Credit J	ECTS
Botanical Interest						
BIM6238	Ethnobotany	2			2	3,29
BIM6139	Laboratory Work in Ethnobotany		1		1	1,64
BIM6240	Phytohormone	2			2	3,29
BIM6141	Laboratory Work in Phytohormone		1		1	1,64
BIM6242	Plant Ecophysiology	2			2	3,29
BIM6143	Laboratory Work in Plant Ecophysiology		1		1	1,64
BIM6143	Laboratory Work in Plant Ecophysiology		1		1	1,64
BIM6246	Phytopharmaca	2			2	3,29
BIM6147	Laboratory Work in Phytopharmaca		1		1	1,64
BIM6287	Cultivation	2			2	3,29
BIM6188	Laboratory Work in Cultivation v		1		1	1,64
BIM6289	Economic Botany	2			2	3,29
BIM6190	Laboratory Work in Economic Botany		1		1	1,64
BIO6238	<i>English for Biology-2</i>	2			2	3,29
Zoology Interest						
BIM6248	Reproduction Technology	2			2	3,29
BIM6149	Laboratory Work in Reproduction Technology		1		1	1,64
BIM6250	Endocrinology	2			2	3,29
BIM6151	Laboratory Work in Endocrinology		1		1	1,64
BIM6252	Ichthyology	2			2	3,29
BIM6153	Laboratory Work in Ichthyology		1		1	1,64
BIM6254	Ornithology	2			2	3,29
BIM6155	Laboratory Work in Ornithology		1		1	1,64
BIM6256	Human Biology and Nutrition	2			2	3,29
BIM6157	Laboratory Work in Human Biology and Nutrition		1		1	1,64
BIM6258	Herpetology	2			2	3,29
BIM6159	Laboratory Work in Herpetology		1		1	1,64
BIM6260	Animal Biosystematics	2			2	3,29
BIM6161	Laboratory Work in Animal Biosystematics		1		1	1,64
BIM6262	Parasitology	2			2	3,29
BIM6163	Laboratory Work in Parasitology		1		1	1,64
BIM6264	Entomologi	2			2	3,29
BIM6165	Laboratory Work in Entomology		1		1	1,64

BIM6291	Animal Husbandry	2			2	3,29
BIM6192]	Laboratory Work in Animal Husbandry		1		1	1,64
BIM6297	Natural Animal Feed Technology	2			2	3,29
BIM6198	Laboratory Work in Natural Animal Feed Technology		1		1	1,64
Microbiology & Biotechnology Interest						
BIM6266	Ecology of Microorganism	2			2	3,29
BIM6167	Laboratory Work in Ecology of Microorganism		1		1	1,64
BIM6268	Food Savety	2			2	3,29
BIM6169	Laboratory Work in Food Savety		1		1	1,64
BIM6193	Industrial Microbiology	2			2	3,29
BIM6294	Laboratory Work in Industrial Microbiology		1		1	1,64
BIM6295	Applied Microbiology	2			2	3,29
BIM6196	Laboratory Work in Applied Microbiology		1		1	1,64
BIO6232	Molecular Genetic	2			2	3,29
BIO6233	Immunology	2			2	3,29
BIO6134	Laboratory Work Immunology		1		1	1,64
BIM6283	Enzymology	2			2	3,29
BIM6184	Laboratory Work in Enzymology		1		1	1,64
Ecology, Environmental Study & Aquatic Biology Interest						
BIO6230	Population and Environmental Education	2			2	3,29
BIO6231	Tropical Biology	2			2	3,29
BIM6270	Agroforestry	2			2	3,29
BIM6171	Laboratory Work in Agroforestry		1		1	1,64
BIM6272	Environmental Health	2			2	3,29
BIM6173	Laboratory Work in Environemtal Health		1		1	1,64
BIM6274	Environmental Management	2			2	3,29
BIM6175	Laboratory Work in Environmental Management		1		1	1,64
BIM6276	Biogeography	2			2	3,29
BIM6277	Technology of Waste Management	2			2	3,29
BIM6278	Environmental Conservation	2			2	3,29
BIM6279	Animal Ecology	2			2	3,29
BIM6280	Plant Ecology	2			2	3,29
BIO6235	Limnology	2			2	3,29
BIO6136	Laboratory Work in Limnology		1		1	1,64
BIM6285	Planktonology	2			2	3,29
BIM6186	Laboratory Work in Planktonology		1		1	1,64
BIM6281	Bioremediation	2			2	3,29

BIM6182	Laboratory Work in Bioremediation		1		1	1,64
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H. FIELD WORK PRACTICE (PKL)

Field Work Practice is a course that must be taken by every Non-Educational Study Program of student at FMIPA UNY in completing the whole curriculum (minimum 144 credits) to complete the prerequisites for obtaining a bachelor's degree. This course is conducted only in the field (without theory in the classroom and guided practicum in the laboratory) in industries or institutions which is relevant to the objects and problems of mathematics and science. The weight of PKL is 3 credits of field practice which equivalent to 136 hours in a period of 1 month. For further information regarding the submission of PKL titles, determination of PKL locations, PKL administration, and preparation of PKL final reports can be seen in the PKL guidebook available at <http://fmipa.uny.ac.id/pedoman-pkl>.

I. THESIS PROJECT

Thesis final project for Biology S1 students is a compulsory subject in the form of student scientific papers that reflects their ability in processing and carrying out scientific thought through research activities. This course weighs 6 credits and is taken in the fourth year. The process of preparing a thesis in the Biology S1 Study Program cannot be separated from the Seminar and Writing Scientific Work (BIM6235) courses which provide the basics of the ability to study literature, research, and to write scientific papers. The students who have fulfilled the prerequisites for taking thesis (110 credits with a minimum GPA of 2.0) contact the academic advisor to ask for recommendations for writing a thesis. The recommendations and a brief description related to the title of the thesis are consulted with the Head of Biology Major to determine the thesis supervisor. Then, the students contact

the appointed supervisor to ask for the lecturer's approval. Finally, students work on the thesis under the guidance of the supervisor, by filling in the thesis final assignment guidance card each time the guidance.

After the thesis is completed, students can submit a thesis examination application. A complete guide to writing / preparing a thesis can be downloaded at <http://fmipa.uny.ac.id/pedoman-tas>. The process of proposing topics to the thesis SK examination proposal is carried out online using the SIBIMTA information system (<http://b guidance.uny.ac.id>).

J. TEACHING STAFF

The following is a list of teaching staff at the Biology Study Program, FMIPA UNY. For further information regarding the profile of each lecturer can be seen at <http://biologi.fmipa.uny.ac.id>

No	Name	Expertise
1	Pro. Dr. IIG. Putu Suryadarma, Prof, Dr, M.S. IG. Putu Suryadarma	Environmental Science
2	Prof. Dr. Djukri	Plant Physiology
3	Dr. Tien Aminatun	Ecology and Environmental Science
4	Dr. Heru Nurcahyo	Biotechnology and Plant Tissue Culture
5	Dr. Ixora Sartika Mercuriani	Biotechnology, Biology Cell, Molecular and Plant Tissue Culture
6	Nur Aeni Ariyanti, Ph.D.	Plant Physiology
7	Dr. Bernadetta Octavia	Microbiology
8	Anna Rakhmawati, S.Si., M.Si	Microbiology
9	Evy Yulianti, S.Si., M.Sc.	Biochemistry, Biology Cell & Molecular, Biotechnology

10	Lili Sugiyarto, S.Si., M.Si	Biochemistry, Biology Cell & Molecular, Biotechnologi
11	Ratnawati, M.Sc.	Plant Anatomy, Systematic Plant
12	Sudarsono, M.Si	Plant Morphology and Plant Variety
13	Ir. Ciptono, M.Si	Animal Reproduction & Embryology, Animal Development Biology, Computer Application for Biology Learning, Laboratory Technique, Biology Laboratory Technique, Biology Methodology Reseach
14	Dr. Tutiek Rahayu, M.Kes	Human Anatomy and Physiology
15	dr. Kartika Ratna Pertiwi, M.Bio Med	Biologi Manusia dan Gizi
16	Paramita Cahyaningrum Kuswandi, M.Sc.	Genetika
17	Ir. Suhandoyo, MS.	Bologi Reprouduksi Hewan
18	Rizka Apriani Putri, S.Si., M.Sc	Biologi Vertebrata
19	Yunita Fera Rahmawati, M.Sc	Biolog Avertebrata
20	Tatag Bagus Putra Prakarsa, M.Sc.	Biologi Vertebrata

IV. STUDENT ACTIVITIES AND ORGANIZATIONS

To support self-development especially students' soft-skills, Universitas Negeri Yogyakarta (UNY) provides a variety of activities and organizations, both at the department, faculty, and university levels.

A. DEPARTMENT LEVEL



Himabio (Himpunan Mahasiswa Jurusan Pendidikan Biologi, or Student Association of Biology Education) is an organization of students majoring in Biology Education at FMIPA UNY which is incorporated into IKAHIMBI (Ikatan Himpunan Mahasiswa Biologi Indonesia, or Indonesian Biology Student Association) work area IV Java 2. Himabio has a role in developing the interests and talents of Jurdik Biology students and as a container to channel the

aspiration of Jurdik Biology students. Based on these functions, Himabio has a vision that is *“Realizing the Student Association of Biology Education Department (Himabio) FMIPA UNY as a forum for the aspirations of the academic community of the Department of Biology Education as well as being an active, innovative, achievement, and caring to the environment students organization with a family spirit”*. to be able to achieve this vision, Himabio has missions:

1. Facilitating and channelling the aspirations of the academic community of the Department of Biology.
2. Maintaining the existence of Himabio FMIPA UNY in internal and external scope.
3. Enhancing entrepreneurship of Biology Education Department Students through the application of biological science.
4. Facilitating Biology Education Department Students to develop their interests, talents and achievements in the academic and non-academic fields.
5. Organizing activities that can increase the concern of Biology Education Department students towards the environment and society.
6. Strengthening the kinship among academics community of the Biology Education Department.

In addition, Himabio also has BSO (Badan Semi Otonom, or Semi-Autonomous Body), KS (Kelompok Studi, or Study Group) and Initiation. In its journeys, Himabio 2019 is accompanied by Organizational Builder and Organizational Advisory Council (Majelis Pertimbangan Organisasi, or MPO).

The followings are the detailed profiles of BSO, KS, and Initiation.

1. Biospeleology Studien Gruppen BSG



BSG is a semi-autonomous body of the Student Association of the Department of Biology FMIPA UNY which is concerned with *Biospeleology*. BSG was established on November 29, 2007 in Semuluh Cave, Semanu, Gunungkidul. In December 2009 this group officially took shelter under HIMABIO FMIPA UNY with the status of the Semi Autonomous Agency (BSO). Before becoming a BSO, BSG was known by the name BSG Yogyakarta.

The founding fathers of BSG were 23 students from Biology study program of UNY batch 2006. Biospeleology comes from Greek words, bios which means life, spelation which means cave, and logos means knowledge. So it can be said that BSG is a BSO that studies the ecosystems and biotics of the cave. BSG UNY is an organization whose membership is open to all students majoring in biology education at Yogyakarta State University. BSG UNY has several goals, including (1) forming humans who have a concern for the biotics of the cave and its environment. (2) Creating a scientific atmosphere in the Biology Education Department of FMIPA UNY, (3) contributing to the conservation of the cave and its environment. BSG has 4 fields of study including:

1. Bats, study of bats learn about the identification of the types of bats found in a cave. This identification is based on the morphological characteristics of bats.
2. Arthropods, including macrofauna, mesofauna, and microfauna both terrestrial and aquatic.
3. Microbiology, learn about mushrooms, molds in the cave. And bacteria isolated from cave ornaments.
4. Eksokarst, is an ecosystem outside the cave or around the mouth of the cave.

2. ARWANA



BSO Arwana (Arga Wana Setya Buwana) is one of the semi-autonomous bodies of the UNY Biology Student Association which is engaged in the field of nature lovers or can be called the nature lover of the Department of Biology Education. At the beginning, the activities carried out by Arwana were the same as the mapala activities in general in the form of tracking, hiking and other outdoor activities. Over time, an innovation was carried out by trying to study ferns, beach rails, forums and the Lawu expedition. Besides focusing on the nature that is closely with mountains climbing, until now BSO Arwana focuses on Lepidoptera, especially butterflies. BSO Arwana has a vision to create awareness for the environment through efforts to conserve Lepidoptera and its habitat and foster a sense of love for nature. While the missions of the Arwana BSO, are 1) Increasing awareness of the environment through observation, research, and other activities, 2) Conserving Lepidoptera and their habitats, 3) Fostering a sense of love for nature through tracking and adventuring activities, 4) Establishing family relationships between board and members in particular, between students and the community in general. This makes BSO Arwana a place for UNY Biology Department students who like outdoor activities.

3. HERBIFORUS



The Semi-Autonomy Board of the Herbiforus Plant Study Group, hereinafter abbreviated as KST Herbiforus, is a study group that focuses on learning the science and skills of plant management. The name Herbiforus comes from an English sentence, "Herb for us" which means that humans cannot be separated from the existence of plants as a source of learning, food, clothing, and shelter. This organization was established on November 21, 2014. At first Herbiforus focused on environmental conservation activities through the "Mangrove Embroider" activity by planting 1000 mangrove seeds in Pasir Mendit, Kulonprogo. BSO KST Herbiforus was established with the aim of accommodating and

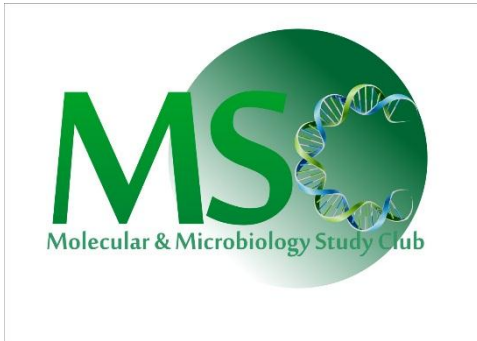
facilitating interests, as well as developing the abilities of students of the Department of Biology of FMIPA UNY in the fields of science and plant management skills. The activities include research on plants and their habitats, management and use of plants, conservation of plants and their environment, exploration of plants in their habitats, and publication of activities and results of research on plants and their habitats. Its membership is open to all Biology Education Department students in Yogyakarta State University. BSO KST Herbiforus is not a socio-political power organization and does not carry out practical political activities. Herbiforus's vision is to increase the contribution of KST Herbiforus members to science and society through research and application of botany. Herbiforus's missions are to improve botanical knowledge and plant management skills of KST Herbiforus members, facilitate Herbiforus KST members in botany research and publications, facilitate Herbiforus KST members in informing the application of botanical knowledge and plant management to the community, and establishing family relationships among KST Herbiforus members and the society.

4. ODONATA STUDY GROUP



Odonata Study Group is an organization under the field of reasoning HIMABIO FMIPA UNY. The Odonata Study Group was inaugurated on December 25, 2016. The focus of the Odonata Study Group is on dragonflies and their habitat. Although it is only three years old, the contributions of this study group have been very numerous. The three main activities of the Odonata Study Group are conservation, education and research.

5. MOLECULAR AND MICROBIOLOGY STUDI CLUB (MSC)



MSC is the initiation of a study group that focuses on the field of “Biotechnology”. The initiation of this study group was formed by 8 students called “Primers”, each of whom had conducted microbiology and molecular studies. MSC was established around February 2017. MSC is present to stimulate the enthusiasm of UNY Jurdik Biology

students to intensify research and scientific biotechnology. MSC's Study Areas include Biology / Molecular Genetics, Bio-Biotechnology, Microbial Diversity.

6. UNYPET



UNYPET is one of the herpetofauna observer groups of UNY, one of the initiations of Himabio FMIPA UNY. Unypet is engaged in the field of herpetology, namely the field of biological science that studies about Reptiles and Amphibians. Unypet has the field of study of reptiles and amphibians. The vision of Unypet is

"Revealing the hidden, learning the visible". Unpet has the following missions

- Identifying and studying herpetofauna
- Love the environment where herpetofauna lives as a fellow living creature on Earth.
- Understanding about herpetofauna to oneself and others.
- Inviting people to participate in preserving herpetofauna and its environment as part of student preservation efforts.

B. FACULTY LEVEL

Student activities and organizations at the Faculty of Mathematics and Natural Sciences UNY include the Student Advisory Board (Dewan Pertimbangan Mahasiswa, or DPM) and the Student Executive Board of FMIPA. In relation to students' interests and talents, there are several student activity (Unit Kegiatan Mahasiswa, or UKM):

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

C. UNIVERSITY LEVEL

The Student Executive Board - the Student Republic (BEM REMA), the Student Representative Council (DPM), and the Student Consultative Assembly (MPM) are student organizations at University level IN Universitas Negeri Yogyakarta. In addition, to accommodate the interests, talents, and fostering student achievement, there are a number of Student Activity Units (UKM) at the university level which can be grouped according to their scope as follows.

1. Reasoning Field

To respond to the development of science and technology, UNY undertook a special strategy to accommodate and develop all the potentials and interests of students in the field of science and technology. The reasoning activities at UNY include the following UKM:

- a. UKM Research
- b. UKM Student Press "Ekspresi"
- c. UKM Radio "Magenta FM"
- d. UKM Foreign Language
- e. UKM Engineering Technology

2. Art Field

The development of creativity and potential of students in the arts is carried out by UNY through a number of the following UKM:

- a. UKM Traditional Art Student Assosiation (Kamasetra)

- b. UKM Student Choir (PSM) “Swara Wadhana”
- c. UKM Music “Sicma”
- d. UKM Fine Arts and Photography (Serufo)
- e. UKM Literature and Theater Study Unit (Unstrat)

3. Sport Field

The development of sports skills for students aims to maintain the fitness and health of students as well as to support the achievements of UNY students in the field of sports. Sports activities are coordinated in the following UKM:

- a. UKM Athletics
- b. UKM Chess
- c. UKM Swimming
- d. UKM Archery
- e. UKM Hockey
- f. UKM Table Tennis
- g. UKM Tennis
- h. UKM Judo
- i. UKM Martial Art
- j. UKM Karate
- k. UKM Tae Kwon Do
- l. UKM Madawirna Nature Lovers
- m. UKM Volley Ball
- n. UKM Basket Ball
- o. UKM Sepak Takraw
- p. UKM Football
- q. UKM Baseball-Softball
- r. UKM Marching Band Citra De- rap Bahana
- s. UKM Badminton

4. Welfare and Special Interest Field

Student coaching in this field is a vehicle to improve the welfare of students both physically and mentally and students' special interests.

- a. UKM Islamic Spiritual Activity Unit (UKKI)
- b. UKM Christian Student Fellowship (PMK)
- c. UKM Catholic Student Family Association (IKMK)
- d. UKM Hindu Dharma Student Association (KMHD)
- e. UKM Scout Racana WR. Supratman and Racan Fatmawati
- f. UKM Indonesian Red Cross Volunteer Corps (KSR-PMI)
- g. UKM Student Regiment (Menwa) "Pasopati"
- h. UKM Student Cooperative "Kopma UNY"
- i. UKM Entrepreneurship (KWU)

V. SUPPORTING FACILITIES

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

A. LIBRARY

UPT Universitas Negeri Yogyakarta Library provides a variety of services for the academic community of UNY and for the public outside UNY. Access to the UNY library public catalog online can be done through the site <http://library.uny.ac.id/sirkulasi/> , while direct access can be done in the Library building located about 150 meters to the east of the UNY Biology Education Department. The UNY Library has also subscribed to various national and international journals, such as JSTOR, SPRINGER LINK, EBSCO, PROQUEST, etc., which can be accessed through the special internal network of UNY academics (<http://sso.uny.ac.id>).

In addition, UNY also has an Internal Repository containing documents of scientific work, undergraduate thesis, postgraduate thesis, dissertations, researches and journals from the UNY academic community which can be accessed through the site <http://e.library.uny.ac.id/> . For undergraduate thesis, postgraduate thesis, and dissertation, access to complete texts can only be done in the library building.

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

B. SPORTS FACILITIES

Universitas Negeri Yogyakarta (UNY) campus complex has a number of complete sports facilities that can be utilized by the students according to the its provisions, for example:

1. Swimming pool

2. Sportsmart/ Shop for sports equipment
3. Sports dormitory
4. Indoor tennis court
5. Outdoor tennis court
6. Archery field
7. Basket court
8. Community Sports Park
9. Football and Athletics Stadiums
10. Baseball dan softballs court
11. Fitness Center

C. RELIGIOUS FACILITIES

UNY Mujahidin Mosque is 1,920 m² and can accommodate up to 3,500 worshipers located just west of the Faculty of Mathematics and Natural Sciences / Biology Education campus. The mosque, which has been renovated three times with an early architecture similar to the Nabawi Mosque, has become a center of worship for Muslim academics in the Department of Biological Education. In addition, there is Al-Furqon Mosque in the Faculty of Mathematics and Natural Sciences UNY.

Places of worship of various religions are not difficult to find around the UNY Campus, for example Bintang Samudra Chapel in Sagan, Church of St. Yohanes Rasul 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 a center of UNY student activities that provides space for creativity and interaction among students. Besides rooms for student organizations at the university level such as BEM and UKM, this three-story building is also equipped with a large meeting and lobby hall. This facility is located 100 meters to the 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 campus of UNY include Bank BPD DIY and BNI bank, both located on Jalan Gejayan (about 400 meters east of the Department of Biology Education). In addition, there are also Automated Teller Machines (ATMs) around the Biology Education Department, namely at the Kopma UNY Mini Market and Plaza UNY.

F. FOODS AND DAILY NEEDS

KOPMA UNY Cooperative Mini Market provides a variety of student needs ranging from stationery and offices, daily equipment and supplies, snacks, drinks, to photocopies. It is located 50 meters north of the Department of Biology Education / Faculty of Mathematics and Natural Sciences UNY.

UNY's Food Court is a beautifully arranged hawker and food center, complete with shady trees, ornamental plants, joglo buildings, and a number of gazebos. Very comfortable to use to eat a variety of foods and hold casual chats. It is located right east of the Department of Biology Education / Faculty of Mathematics and Natural Sciences UNY.

UNY Garden Café is a food and drink shop which is very suitable for gathering and discussing students, and has been equipped with a hot spot, LCD, Projector and cable TV area. It is located 50 meters to the north of the Department of Biology Education / Faculty of Mathematics and Natural Sciences UNY.

UNY Plaza is a four-storey 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, and electronic repair services, as well as reflexology massages services.

G. ACCOMODATION

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

H. HEALTH FACILITIES

UNY Health Services (Layanan Kesehatan, or LK) is a technical implementation unit that provides health services for students, lecturers, and education personnel in UNY. Some of the services provided include health checks, medication, health consultations, simple laboratory examinations (cholesterol, blood glucose, uric acid, pregnancy tests, blood type tests), examination of pregnant women, First Aid Services for Accidents (first aid) on various large-scale activities, community service, and health education. This service can be contacted by telephone 0274-586168 ext. 1324.

Besides health services, UNY also have a physical therapy clinic located west of GOR UNY. Physical therapy clinics deal with various injuries, sprains / aches, aches, and so on. The clinic is open from 09.00 to 17.00 WIB, and is served by professional therapists.

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

1. RSUP Dr. Sardjito, Kesehatan 1 Road, Sendowo, Yogyakarta ($\pm 2,5$ km from FMIPA UNY).
2. Panti Rapih Hospital, Cik Di Tiro 30 Road, Yogyakarta (± 1 km from FMIPA UNY).
3. Jogjakarta International Hospital (JIH), Pajajaran Road/North Ring Road 160 (± 4 km from FMIPA UNY).
4. Siloam Yogyakarta Hospital, Urip Sumoharjo Road ($\pm 1,5$ km from FMIPA UNY).
5. An-Nur Surgery Hospital, Colombo Road (± 500 m from FMIPA UNY).
6. Dr. Yap Eyes Hospital, Cik Di Tiro Road 5 ($\pm 1,5$ km from UNY Campus).

J. COUNSELING, CAREER, AND LAW

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

Career development, including employment information, career guidance and consultation, and tracer study, is provided by UNY's Career Development Center (CDC) through <http://ppk.lppmp.uny.ac.id>. Besides that, CDC UNY also holds Job Fair twice a year, which is participated by dozens of companies.

UNY also has an UPT of Consultation and Legal Aid Service which can be contacted by telephone 0274-586168 Psw. 420 or 0274 545097. Profiles and further information about this service can be accessed through the site <http://lkbh.uny.ac.id>.

K. BOOKSTORE

Books published by UNY Press can be purchased at the UNY Bookstore, Level 3 of the UNY Plaza Colombo Street building. Publicized 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).



UNY VISION

Become a superior, creative and innovative educational university based on devotion, independence and intellectual in 2025

UNY MISSIONS :

- 1. Organizing academic and professional education fields that are superior, creative, and innovative to produce people who are pious, independent, and intellectual.*
- 2. Carrying out superior, creative and innovative non-educational academic, professional and vocational fields to produce human beings who are pious, independent, and intellectual.*
- 3. Conducting researches to discover, develop, and disseminate knowledge, technology, and arts that welfare individuals, and society, and support regional and national development, and contribute to creative and innovative global problem solving based on piety, independence, and intellectual.*
- 4. Organizing community service and empowerment in a creative and innovative manner that encourages the potential of the development of human, community and nature to realize community welfare based on piety, independence, and intellectual.*
- 5. Organizing good, clean, and authoritative governance and services in the*

implementation of higher education autonomy to realize superior, creative and innovative universities based on piety, independence and intellectual.

6. *Creating a process and learning environment that is able to empower students creatively and innovatively to conduct lifelong learning based on piety, independence, and intellectual.*
7. *Developing cooperation with other institutions, both national and international, creatively and innovatively to improve the quality of the implementation of tridharma with the principle of equality and mutual benefit based on piety, independence, and intellectual.*