

Programme specification



MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION
UNIVERSITAS NEGERI MALANG (UM)
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF BIOLOGY
Jalan Semarang 5, Malang 65145, Phone: (0341) 562-180
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The general information about BIO's Programme Specification

1.	Awarding Institution	UM (<i>Universitas Negeri Malang</i>)
2.	Program Title	B.Sc. in Biology (BIO)
3.	Final Award	<i>Sarjana Sains (S.Si.)</i>
4.	Professional or Statutory Body of Accreditation	Indonesian National Accreditation Agency for Higher Education (<i>Badan Akreditasi Nasional Perguruan Tinggi – BAN PT</i>) → A
5.	Languages of Instruction	Indonesian English
6.	Mode of Study	Conventional, Cooperative Learning, Student Active Learning
7.	Study Duration	Minimum: 3.5 years Maximum: 7 years
8.	Entry Requirements	Graduating from senior high school Passing the national university entrance examination or Passing <i>Ujian Mandiri</i> (University Entrance Exam)
9.	Program Vision	Become an excellent department and become a reference in the <i>Tri Dharma</i> of Higher Education in the field of Biology.
10.	Program Mission	<ol style="list-style-type: none">Organizing Biology education and learning that is centered on learners using effective learning and optimizing the use of technology.Carrying out research in the field of Biology both education and non-education which is beneficial for the development of science and public welfare.Organizing community service through the application of Biology both education and non-education oriented to community empowerment.Organizing civil service, autonomy, accountability and transparency that guarantees continuous quality improvement.
11.	Program Objectives	<ol style="list-style-type: none">Produce biology graduates who are intelligent, religious, noble, independent, and able to develop professionally.Produce scientific works and creative works that excellent in the field of biology.

		<p>c. Produce community service to the biological field to create an independent, productive and prosperous society.</p> <p>d. Produce the performance of quality, effective, efficient, transparent and accountable biology study program in the administration of higher education of <i>Tri Dharma</i>.</p>
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Biology is a basic science that has an essential role in providing a foundation for the development of applied science that is beneficial to society. Biological science will develop given that human needs for biological natural materials still cannot be replaced by synthetic products; even though synthetic biology has been developed. However, currently the interest to take a profession in biology is less attractive among high school / vocational graduates. Even though biology has tremendous potential in the future in providing goods and services for the needs of the community.

Biology study program in *Fakultas Matematika dan Ilmu Pengetahuan Alam (FMIPA)* or Faculty of Mathematics and Natural Sciences, Universitas Negeri Malang is designed as a biology study program that supports sustainable development. For this reason, it is necessary to develop the management of study programs from tridharma aspects that lead to innovation, creativity and applied biology for the needs of society. The curriculum of the study program is directed at developing capabilities that are adapted to the living of students today and future (life-based learning).

The Biology Study Program has set the aim to motivate students to become biology researchers who have the spirit of Pancasila, have entrepreneurship skills to solve health, food, and biodiversity problems. Those three major themes were chosen for the following reasons, 1) food and health have become national and international issues, 2) biodiversity is the basic capital to increase the availability of food to support public health so that it needs to be utilized, empowered and conserved.

Biology researchers graduated from the Biology Study Program Universitas Negeri Malang are projected to have entrepreneurship skills, have the capability to research, are able to create products (goods and services), are technology literate, are able to innovate and create biological findings that have the potential to be utilized by society.

The scope of biological research is as follows:

1. Finding new concepts in the field of biology to enrich biology as a basic science
2. Identifying, discovering, utilizing, biological science that supports the fields of food, health and biodiversity
3. Discover new concepts that bridge the development of basic biology, applied biology and industry

4. Develop the results of basic and applied biology research into products of goods or services that can be utilized by the community

Researches in the Biology Study Program have been set under the development of the research umbrella in the study program, namely development in the domain of food, health, biodiversity and the environment. The focus of the research location was adjusted to the characteristics of the East Java region, which included tropical conditions ranging from lowlands to highlands, having national parks, owning seas, and agro-industries.