

# BIOLOGY

at Faculty of Biology, 16 Studentski trg, 11000 Belgrade, [www.bio.bg.ac.rs](http://www.bio.bg.ac.rs)

ECTS: 60/ LANGUAGE OF INSTRUCTION: SERBIAN / DEGREE: MASTER BIOLOGIST

## Study program content

Master Studies in Biology is a one-year academic programme with 60 ECTS credits aimed at educating and training students for scientific research and professional work in the field of biology. Upon completion of this programme, the student is awarded the Master of Science in Biology degree, denoting possession of the integrated knowledge necessary to work in the fields of science, industry, agriculture, medicine, etc. The study programme is realized through various forms of theoretical and practical instruction (lectures, practical experience and laboratory work), field trips, research projects, seminars, professional experience, colloquiums and exams. The programme includes preparation of a final Master thesis, whose successful defence gives a student all the rights of completed master academic studies provided by law.

## Study program goals

The study programme aims to develop highly professional staff that has a complete academic education in biology, as well as specific competencies necessary for teaching and pedagogical and scientific research work in the selected specific field of biology, according to the chosen submodule.

## Modules

The study programme has 16 elective modules aimed at acquiring additional knowledge and skills in the selected fields of biology, as well as extending knowledge gained at the level of undergraduate studies. The modules consist of compulsory courses that provide fundamental knowledge from a specific field of biology and elective courses available to all students. In addition, students can choose elective courses from the list of compulsory courses of other modules.

## Study program outcomes

After completing the programme's curriculum the students will acquire the following general and specific skills:

- ability to analyze and synthesize knowledge about the structure, organization and function of biological systems at the level of molecules, cells, individuals, populations;
- mastering of the complex and specific methods and processes of research in biology;
- development of critical thinking and self-critical thinking about biological concepts and approaches related to biological phenomena;
- ability to apply the acquired knowledge of biology in research and teaching practice;
- development of professional skills and readiness to accept responsibilities in both individual and team work, ability to conduct effective professional communication.

## Admission requirements

Anyone who has completed the first level of academic studies with at least 240 ECTS credits; students who have completed the first level of academic studies with at least 180 ECTS credits along with the first year of master academic studies with at least 60 ECTS credits; and students who have earned the Bachelor of Science in Biology degree in previous studies are eligible to enroll.

## Contact

Vice Dean for Teaching  
e-mail: [prodekan.nastava@bio.bg.ac.rs](mailto:prodekan.nastava@bio.bg.ac.rs)

# ECOLOGY

at Faculty of Biology, 16 Studentski trg, 11000 Belgrade, [www.bio.bg.ac.rs](http://www.bio.bg.ac.rs)

ECTS: 60/ LANGUAGE OF INSTRUCTION: SERBIAN / DEGREE: MASTER BIOLOGIST

## Study program content

Master Studies in Ecology is a one-year academic programme with 60 ECTS credits aimed at educating and training students for scientific research and professional work in the field of ecology and environmental protection. Upon completion of this programme, the student is awarded the Master of Science in Ecology degree, denoting possession of the integrated knowledge necessary for scientific research and professional work in the fields of science, the economy, industry, agriculture, forestry, environmental protection, etc. The study programme is realized through various forms of theoretical and practical instruction (lectures, practical experience and laboratory work), field trips, research projects, seminars, professional experience, colloquiums and exams. The programme includes preparation of a final Master thesis, whose successful defence gives a student all the rights of completed master academic studies provided by law.

## Study program goals

The study programme aims to develop highly professional staff that has a complete academic education in ecology, as well as specific competencies necessary for scientific research work in the selected specific field of ecology, according to the chosen submodule.

## Modules

The study programme includes basic studies the same for all students, where they acquire additional knowledge in the field of ecology and extend knowledge gained at the undergraduate level, as well as four elective modules aimed at expanding supplementary knowledge and skills in the selected fields of ecology. The modules consist of one compulsory course that provides broad knowledge from a specific field of ecology and elective courses available to all students. In addition, students can choose elective courses from the list of compulsory courses of other modules.

## Study program outcomes

After completing the programme's curriculum the students will acquire the following general and specific skills:

- ability to analyze and synthesize knowledge about the structure, organization and function of biological systems at the level of molecules, cells, individuals, populations; especially at the level of populations and ecosystems;
- mastering of the complex and specific methods and processes of research in ecology;
- development of critical thinking and self-critical thinking about issues of environmental phenomena and approaches related to environmental protection;
- ability to apply the acquired knowledge of ecology in research and teaching practice;
- development of professional skills and readiness to accept responsibilities in both individual and team work, ability to conduct effective professional communication.

## Admission requirements

Anyone who has completed the first level of academic studies with at least 240 ECTS credits; students who have completed the first level of academic studies with at least 180 ECTS credits along with the first year of master academic studies with at least 60 ECTS credits; and students who have earned the Bachelor of Science in Biology degree in previous studies are eligible to enroll.

## Contact

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# MOLECULAR BIOLOGY AND PHYSIOLOGY

at Faculty of Biology, 16 Studentski trg, 11000 Belgrade, [www.bio.bg.ac.rs](http://www.bio.bg.ac.rs)

ECTS: 60/ LANGUAGE OF INSTRUCTION: SERBIAN / DEGREE: MASTER BIOLOGIST

## Study program content

Master Studies in Molecular Biology and Physiology is a one-year academic programme with 60 ECTS credits aimed at educating and training students for scientific research and professional work in the field of molecular biology and physiology. Upon completion of this programme, the student is awarded the Master of Science in Biology - Molecular Biology and Physiology degree, denoting possession of the integrated knowledge necessary for scientific research and professional work in the fields of biological science, medicine, pharmacy, biotechnology, etc. The study programme is realized through various forms of theoretical and practical instruction (lectures, practical experience and laboratory work), research projects, seminars, professional experience, colloquiums and exams. The programme includes preparation of the a final - Master thesis, whose successful defence gives a student all the rights of completed master academic studies provided by law.

## Study program goals

The aim of the Molecular biology and physiology master degree program of academic study is the education of highly qualified personnel who have a complete academic education and integrated knowledge and understanding of the molecular biological and physiological aspects of biology, as well as specific competencies necessary to work in certain specific areas, according to the chosen modules.

## Modules

The study programme has 10 elective modules aimed at acquiring additional knowledge and skills in the selected fields of molecular biology and physiology, as well as extending knowledge gained at the level of undergraduate studies. The modules consist of compulsory courses that provide fundamental knowledge from a specific field of molecular biology and physiology and elective courses available to all students. In addition,

students can choose elective courses from the list of compulsory courses of other modules.

## Study program outcomes

After completing the programme's curriculum the students will acquire the following general and specific skills:

- ability to analyze and synthesize knowledge about the structure, organization and function of biological systems at the level of molecules, cells, individuals, populations;
- mastering of the complex and specific methods and processes of research in molecular biology and physiology;
- development of critical thinking and self-critical thinking about biological concepts and and molecular- biological and physiological approaches related to biological phenomena;
- ability to apply the acquired knowledge of molecular biology and physiology to solving current challenges of modern civilization;
- development of professional skills and readiness to accept responsibilities in both individual and team work, ability to conduct effective professional communication.

## Admission requirements

Anyone who has completed the first level of academic studies with at least 240 ECTS credits; students who have completed the first level of academic studies with at least 180 ECTS credits along with the first year of master academic studies with at least 60 ECTS credits; and students who have earned the Bachelor of Science in Biology degree in previous studies are eligible to enroll.

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