

# GENETICS

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: SPECIALIST BIOLOGY

## Study program content

The programme of specialist academic studies in **Genetics** is a 60-ECTS one-year academic programme devoted to education and training of master students for professional and scientific work in the field of genetics. Upon completion of the study programme, students gain the knowledge and skills necessary to work in institutions of the medical, pharmaceutical, agricultural and other industries. The study programme consists of compulsory and elective courses that deal with certain specific areas of genetics and is carried out through various forms of theoretical and practical instruction (lectures, labs), student research, mentoring, seminars, colloquia and exams. A final student thesis is required. Upon successful defence of this thesis, the student acquires the rights provided by law for persons who have completed specialist studies.

## Study program goals

The aim of the programme of specialist academic studies in genetics is to provide a complete academic education, as well as specific knowledge and understanding of selected specialist areas in the field of genetics.

## Study program outcomes

After completing the programme's curriculum, the student will have acquired the following general and specific skills:

- Ability to analyze and synthesize specific knowledge of genetic structure, organization and functions at the levels of molecules, cells, individuals and populations;
- Mastering of the complex and specific methods and processes of research in certain fields of genetics;
- Development of critical and self-critical thinking about genetic concepts and approaches to issues related to genetic phenomena; ability to apply -the acquired knowledge of genetics in practice and address specific technical problems of research in the field of genetics using scientific methods and procedures;
- Understanding of specific tasks and responsibilities in the context of work in the field of genetics;
- Development of professional skills and readiness to accept responsibilities in both individual efforts and teamwork in a multidisciplinary environment; ability to conduct effective professional communication; familiarity with ways of collecting data and processing relevant facts in the field of genetics using information and communication technologies; and readiness to apply bioethics in genetics.

## Admission requirements

Anyone who has completed academic studies of the second degree level, including passing an exam in genetics, and who has achieved at least 300 ECTS is eligible to enroll.

## Contact

Vice Dean for Teaching  
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# IMMUNOLOGY WITH MICROBIOLOGY

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: SPECIALIST BIOLOGY

## Study program content

The programme of specialist academic studies in **Immunology with microbiology** is a 60-ECTS one-year academic programme devoted to education and training of master students for professional and scientific work in the field of immunology and microbiology. Upon completion of the study programme, students will have gained the knowledge and skills necessary to work in immunological/microbiological laboratories in medical, pharmaceutical, veterinary and other institutions that apply knowledge of immunology and microbiology. The study programme consists of compulsory and elective courses that deal with certain specific areas immunology. The programme is carried out through various forms of theoretical and practical instruction (lectures, labs), student research, mentoring, seminars, colloquia and exams. A final student thesis is required. Upon successful defence of this thesis, the student acquires the rights provided by law for persons who have completed specialist studies.

## Study program goals

The aim of the programme of specialist academic studies in immunobiology with microbiology is to provide a complete academic education, as well as specific knowledge and understanding of selected specialist areas in immunology.

## Study program outcomes

After completing the programme's curriculum, the student will have acquired the following general and specific skills:

- Ability to analyze and synthesize specific knowledge of organization and functions at the levels of immune system cells and microorganisms and their interactions;
- Mastering of the complex and specific methods and processes of research in certain fields of Immunology and microbiology;
- Development of critical and self-critical thinking about immunological and microbiological concepts and approaches to issues related to immunobiological phenomena; ability to apply -the acquired knowledge in practice and address specific technical problems of research in the field of immunology / microbiology using scientific methods and procedures;
- Understanding of specific tasks and responsibilities in the context of work in the field of immunology;
- Development of professional skills and readiness to accept responsibilities in both individual efforts and teamwork in a multidisciplinary environment; ability to conduct effective professional communication; familiarity with ways of collecting data and processing relevant facts in the field of Immunology and microbiology using information and communication technologies; and readiness to apply bioethics in immunological and microbiological investigations.

## Admission requirements

Anyone who has completed academic studies of the second degree level, including passing an exam in immunology and microbiology, and who has achieved at least 300 ECTS is eligible to enroll.

## Contact

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# MICROBIOLOGY

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: SPECIALIST BIOLOGY

## Study program content

The programme of specialist academic studies in **Microbiology** is a 60-ECTS one-year academic programme devoted to education and training of master students for professional and scientific work in the field of microbiology. Upon completion of the study programme, students will have gained the knowledge and skills necessary to work in microbiological laboratories in the pharmaceutical, food and other industries that have research and development laboratories, as well as in laboratories for microbiological quality control. The study programme consists of compulsory and elective courses that deal with certain specific areas of the biology of microorganisms. The programme is carried out through various forms of theoretical and practical instruction (lectures, labs), student research, mentoring, seminars, colloquia and exams. A final student thesis is required. Upon successful defence of this thesis, the student acquires the rights provided by law for persons who have completed specialist studies.

## Study program goals

The aim of the study programme of specialist academic studies in biology of microorganisms is to provide a complete academic education, as well as specific knowledge and understanding of selected specialist areas in the field of biology of microorganisms.

## Study program outcomes

After completing the programme's curriculum, the student will have acquired the following general and specific skills:

- Ability to analyze and synthesize specific knowledge of organization and functions of prokaryotic and eukaryotic microorganisms and viruses and their interactions with other organisms and the environment;
- Mastering of the complex and specific methods and processes of research in certain fields of biology of microorganisms;
- Development of critical and self-critical thinking about microbiological concepts and approaches to issues related to microbiological phenomena; ability to apply -the acquired knowledge in practice and address specific technical problems of research in the field of biology of microorganisms using scientific methods and procedures;
- Understanding of specific tasks and responsibilities in the context of work in the field of microbiology;
- Development of professional skills and readiness to accept responsibilities in both individual efforts and teamwork in a multidisciplinary environment; ability to conduct effective professional communication; familiarity with ways of collecting data and processing relevant facts in the field of microbiology using information and communication technologies; and readiness to apply bioethics in microbiological research.

## Admission requirements

Anyone who has completed academic studies of the second degree level, including passing an exam in microbiology, and who has achieved at least 300 ECTS is eligible to enroll.

## Contact

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