

Biology

University of Tyumen

Degree or qualification is awarded: **Bachelor in the Major "Biology"**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **158 947 RUB per year**

Programme webpage at the university website:

<https://www.utmn.ru/en/study-with-us/degree-programs/undergraduate/686358/>

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The program is aimed to prepare professionals with profound theoretical knowledge in botany, zoology, physiology, biochemistry, ecology and practical skills of applied problems solution.

The area of graduates' professional activity - study of nature and its laws, the use of biological systems in commercial and medical applications, protection of nature. The graduate is prepared to get employed in research, scientific, industrial, project organizations; bodies of nature conservation and environmental management; educational institutions.

Objects of the graduate's professional activity - biological systems at various organization levels; processes of life and evolution; biological, bioengineering, biomedical, environment protection technologies, biological expertise and monitoring, assessment and restoration of the territorial biological resources and natural environment.

Specializations within this programme

Botanics

- **Graduate profile:**

-prepared for researching in the field of ecology, protection and use of plants and fungi, ready to work in the field of plant pathology, forest protection in the gardening sector, environmental and nature protection administration, in the sanitary-epidemiological control bodies, and scientific and industrial activities in biotechnology sphere;

-uses a wide range of methods for describing, classifying and cultivating botanic materials.

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Physiology

- **Physiology**

-the graduate is prepared for scientific research and production activities in the area of human and animal physiology, biomedicine, higher nervous activity, ecological physiology, plant physiology, physiology of individual development, cell physiology, work and sport physiology, uses a wide scope of methods for diagnostic and correction of organism condition, as well as methods of physical-chemical and cell biology.

-the graduate is ready to work in research institutions of physiological, medical and agricultural profile, laboratories and departments of clinical physiology, work physiology, professional selection, space and underwater physiology, agricultural institutions, sanitary and epidemiological control bodies.

Zoology

- **Zoology**

-All graduates are prepared to study animals, their ecology, protection and use. They apply a wide range of methods in describing, classifying, and cultivating zoological materials.

-Biologist-zoologist graduates are prepared for environmental and nature protection management, ready to work on the reproduction, protection and improvement of the productivity of economically important animal species, to work on the sanitary and epidemiological stations, zoos, natural reservation.

Bioecology

- **Bioecology**

Graduate profile:

All graduates are prepared for researching, state assessing and protection of biota as a component of ecosystems and biosphere. They are able to conduct environmental monitoring activities and environmental safety, assessment and protection of biodiversity; Graduates are ready to work in wildlife management bodies, the activities of environmental impact assessment and environmental audit, the implementation of measures for the protection of nature and human health; Able to use a wide range of biological methods and applied ecology, biological and environmental monitoring.

Biochemistry., Genetics

- **Biochemistry**

All graduates are prepared for researching in the field of the structure and characteristics of chemical compounds that make up living organisms, metabolism and its regulation. They have a wide range of analytical techniques, methods of bioorganic and biological chemistry, molecular biology, immunochemistry, prepared for work in the field of medical and veterinary biochemistry, immunology and biotechnology.

Genetics

- **Genetics**

Graduates are prepared for researching the phenomena of heredity and variability at all levels of organization of life, the genetic patterns in practical human activity, breeding, molecular biology, cytology and histology, immunology, biology, reproduction and individual development, microbiology and virology, biotechnology. All graduates are able to apply the methods of cell engineering, biotechnology, researching on genetic material submolecular, molecular, cellular, organism and population levels of medical and agricultural institutions.