General courses (1-6 semesters):

Mathematics

Physics

Inorganic Chemistry

Analytical Chemistry

Lab Safety

Botany

Zoology

General cytology

Histology

Plant Anatomy

Human Anatomy

Latin language

Psychology

Sociology

Economic theory

Philosophy

Teaching

Organic Chemistry

Bioorganic Chemistry

Informatics

Mathematical methods in biology

Biology of individual development

Biochemistry

Microbiology

Soil science

Ecology

Theories of evolution

Plant Physiology and Biochemistry

Physiology of human and animals

Virology

Radiobiology

Immunology

Genetics

Molecular Biology

Biophysics

Biotechnology

Methodics of teaching of biology

Applied mycology

Selection

Special courses and practice (6-8 semesters)

Biochemistry department:

Structure and functions of nucleic acids

Biological membranes

Bioinorganic chemistry

Molecular immunology

Medical biochemistry

Regulation of metabolism

Enzymology

Biology of stem cells

Applied informatics

Physical and chemical methods in biochemistry

Methods of analysis of carbohydrates and lipids

Methods of analysis of proteins and aminoacids

Water and salt metabolism

Surgery

Botany and plant ecology department

Basics of experimental research and statistics

Plant ecology

Microtechniques

Principles of scientific photography

Methods of investigation of water and land phytocenosis

Algal physiology and biochemistry

Medicinal Plants

General algology

General hydrobiology

Practice on flora of vascular plants

Genetics department

Gender genetics

Mutagenesis

Human cytogenetics

Radiation genetics

Genetic and cell engineering

Structure of polythenic chromosomes

Genome organization

Genetics of development

Genetic analysis

Molecular and biochemical genetics

Applied genetics

Scoring of mutations in animals and plants

Methods of human caryotyping

Biochemical genetics

Molecular biology and biotechnology department

Organization of prokaryotic and eukaryotic genomes

Processes and apparatus of biotechnological industry

Molecular biology of cell

Control and directing of biotechnological processes

Constructing and usage of sensors

Engineer and computer graphics

Biotechnology of microalgae

Economics and organization of biotechnological industry

Cell technology

Engineering enzymology

Culturing and molecular-biological characteristics of biotechnological objects

Analysis of activity of gene transcription

Principles of genetic engineering

Molecular diagnostics

Plant physiology and biochemistry department

Culturing of Flowering Plant Cells, Tissues and Organs in vitro

Industrial Microbiology

Plant Intracellular Signal Systems

Plant Ecophysiology with General

Physiology of Plant Resistance

Plant Mineral Nutrition with General Soil Microbiology

Actual problems of Plant Physiology and Biochemistry

Scientific Research Principles

Biochemistry of Plants and Microorganisms

Photosynthesis

Plant Hormones

Physiology of Flowering

Mycology and phytopathology department

Agricultural phytopathology

General mycology

Mycological and microbiological toxicology

Pathogenesis

Fungal taxonomy

Methods of field researches

A wood phytopathology

Genetics of fungi

The medicine and veterinary mycology

Diagnosis of plant diseases

Methods of experimental mycology

Methods of physiological and biochemical research

Industrial cultivation of mushrooms

Physiology of human and animals department

Hemotology

Tlectrophysiology

Endocrinology

Physiology of cardio-respiratory system

Surgery

Physiology of CNS

Physiology of water-salt metabolism

Physiology of neurotransmitters

Physiology of vitamins

Methods of analysis of proteins, carbohydrates and nucleic acids

Methods of analysis of lipids

Methods of cell physiology

Zoology and animal ecology department

Ecology of Birds

Ichthyology

Entomology

Parasitology

Batrachology

Industrial Aquaculture

Phylogenetics

Biometric Methods in Zoology

Theory of Fauna Conservation

Geoinformatics technologies in biology and ecology

Zootomy of invertebrates

Zootomy of Mammals

Zootomy of fish, amphibia, birds

Study on Protected Areas

Microscope and Histology Techniques