

**List of courses in foreign languages at State University “Uzhhorod National University”
in academic year 2015-2016**

Subject area: Biology

№	Courses	Course content	Lecturer	ECTS	Total hours	Contact hours	Individual work
1	Plant Morphology	Principles of organisation and evolution of plant organisms and their organs. Vegetative plant organs, generative plant organs.	PhD., Assoc. Prof. Hasynets Yaroslava	3	90	50	40
2	Plant Anatomy	Structure of plant cell. Plant tissues. Anatomy of vegetative organs: stem, leaf, root.	PhD., Assoc. Prof. Hasynets Yaroslava	3	90	50	40
3	Embryology of Angiosperms	Development of generative parts of angiosperms. Pollination, impregnation. Development of endosperm and embryo. Apomixis. Applied aspects of cytoembryology.	PhD., Assoc. Prof. Hasynets Yaroslava	3	90	50	40
4	Mycology	Slime molds and lower fungi. Higher fungi and lichens	PhD., Assoc. Prof. Hasynets Yaroslava	3	90	50	40
5	Geobotany and Basics of Floristry	Consist, structure and dynamics of communities. Features of different kinds of communities. Floristic kingdom of Earth. Flora features of different zone of Ukraine.	D.Sc., Prof. Lyubov Fel'baba-Klushina	3	90	50	40
6	Population Biology	Consist and structure of populations. Life cycle, variations of ontogenesis. Strategy of plant population.	D.Sc., Prof. Lyubov Fel'baba-Klushina	3	90	50	40
7	Entomology	Morphology and anatomy of insects. Life cycles of insects. Ecology of insects, functions and role of insects in ecosystems. Insects as forest and	PhD., Assoc. Prof. Vladyslav Mirutenko	3	90	44	46

		crops pests. Current measures of pest management.					
8	Bases of scientific researches in entomology	Preparation of research programs. Environmental factors, measurements of meteorological parameters. Ecological specifics of insects. Methods of collecting entomological material, method of fixation and storing of material. Training of scientific publications.	PhD., Assoc. Prof. Vladyslav Mirutenko	3	90	40	50
9	Human Parasitology	Parasitism as a form of interaction between organisms. Review of human parasites of different taxonomic groups. Ways of invasion, characteristics of life cycles. The clinic of diseases, diagnostic methods, treatment.	PhD., Assoc. Prof. Vladyslav Mirutenko	3	90	30	60
10	Carpathian Fauna	The species composition of the Carpathian fauna of invertebrates and vertebrates. Biotopical distribution of species in the area of Carpathians. Genesis of the fauna. Rare species, endemic species.	PhD., Assoc. Prof. Vladyslav Mirutenko, PhD., Assoc. Prof. Fedir Kurtyak	4	120	56	64
11	Plant Pathology	Microbial plant pathology and physiological disorders in crops, garden plants and ornamentals	Sharga B.M., CSc, docent	3	90	30	60
12	Molecular Biology	Basic principles in molecular biology	Sharga B.M., CSc, docent	3	90	32	58

13	Biotechnology	Basic principles of classical and molecular biotechnology. Biotechnology of microorganisms and plants. Use of microbiology in medicine and agriculture	Sharga B.M., CSc, docent	3	90	30	60
14	Biologically Active Compounds of Living Organisms	Biologically active compounds of microorganisms, plants and animals	Sharga B.M., CSc, docent	2	60	20	40
15	Plant-microbial Interactions	Interactions between plants and microbes in agrocenosis	Sharga B.M., CSc, docent	2	60	20	40
16	General ecology	Relations between organisms and their environment, including human environmental problems. Topics include populations, communities, ecosystems and biosphere.	PhD., Assoc. Prof. Lyudmila Symochko	3	90	44	46
17	Agroecology	Ecological and evolutionary processes in agricultural ecosystems. Agricultural organisms, populations, communities, and their interactions at a systems level. Combining ecological principles with agronomic practice to manage agricultural systems for sustainable production, improved resource conservation, and minimized environmental impact.	PhD., Assoc. Prof. Lyudmila Symochko	3	90	30	60
18	Environmentology	Basis of environmental quality assessment and environmental	PhD., Assoc. Prof. Lyudmila	3	90	30	60

		engineering. Estimation and control of air, water, soil pollution. Main cleaning methods of contaminated environment: mechanical, physical, chemical, biological and their combination.	Symochko				
19	Microbial ecology	Different type of the interactions of microorganisms with their environment, each other, plant and animal species. Main aspects of symbioses, biogeochemical cycles and the interaction of microorganisms with anthropogenic effects such as pollution and climate change.	PhD., Assoc. Prof. Lyudmila Symochko	3	90	30	60
20	Landscape ecology	Diversity and fragmentation of landscape ecosystems. Ecological profiling of landscape ecosystems. Analysis of landscape ecosystems anthropogenic transformation. Landscape ecosystems monitoring.	PhD., Assoc. Prof. Myroslava Demchynska	3	90	34	56
21	Ethology	Kinds of animal behaviour. Sex behaviour. Instincts, learning. Group behaviour, communication. Behaviour and evolution. "Higher" forms of animal behaviour.	PhD., Assoc. Prof. Fedir Kurtyak	3	90	44	46
22	Vertabrate Zoology	General characteristics of the Phylum Chordata. Subphylum Tunacata, Acrania, Vertebrata. Classes of vertebrate animals.	PhD., Assoc. Prof. Fedir Kurtyak	5	150	74	76
23	Human and Animal Physiology	Physiology of organ systems. Blood circulation. Breathing. Digestion. Metabolism. Thermoregulation. The internal secretion. Higher nervous activity.	PhD., Assoc. Prof. Fedir Kurtyak	5	150	70	80

24	Comparative Anatomy of Vertebrates	Historical overview of the formation and development of comparative anatomy of vertebrates. The origin and evolution of vertebrates. Comparative characteristics of different organ systems.	PhD., Assoc. Prof. Fedir Kurtyak	3	90	44	46
25	Animal Embryology	Gametogenesis. Natal and postnatal periods of ontogenesis. Metamorphosis and its' regularities. Regeneration.	PhD., Assoc. Prof. Fedir Kurtyak	3	90	40	50
26	Evolutionary Prerequisites of Anthroposociogenesis	Main stages of human evolution. Human races, genesis of races, ethnogenesis. Environmental features of human evolution	PhD., Assoc. Prof. Fedir Kurtyak	2	60	20	40
27	Soil Science	Role of the different groups of organisms in forming and soil development, mineralogical, chemical and mechanical soil structure, the main soils characteristic, their functional peculiarities. Genesis of main soil types, geographical, geological peculiarities of their forming, agrotechnical specialities of soil using.	Ph.D., Assoc. Prof. Karina Kishko	2	60	30	30
28	Safety Viability	Physiological and psychological human characteristics (memory, attention, risk, character, temperament, carefulness, approachability) and their influence to the safety viability. Characteristics of the factors, which can negatively influence to the human organism (dust, chemical and	Ph.D., Assoc. Prof. Karina Kishko	2	60	24	36

		poisonous substances), analyses the consequences of the nature phenomenon. Human ways of protection under the unfavourable and extraordinary situations in the industrial and daily conditions					
Total:				84	2520	1116	1404