

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

Subject area: Agronomy

№	Courses	Course content	Lecturer	ECTS	Total hours	Contact hours	Individual work
1	Agricultural Entomology	Morphology and anatomy of insects. Life cycles of insects. Functions and role of insects in ecosystems. Insects as forest and crops pests. Current measures of pest management.	PhD., Assoc. Prof. Vladyslav Mirutenko	4	120	50	70
2	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
3	Soil science	Soil mineralogy. Physical and chemical properties of soils, the role of organisms in soil production and in relation to soil character, the description and mapping of soil units, and the origin and formation of soils. Classification of soils. Soil and water environmental quality problems. Desertification. Strategies for designing and critiquing pedological research through literature, discussions, and field trips. Factors and processes involved in pedogenesis, soil-biota relationships, and	PhD., Assoc. Prof. Luybov Margitaj	4	120	60	60

		landscape evolution. No-till farming. Permaculture. their role in soil conservation.					
4	Agrochemistry	The establishment of the science Agrochemistry and its connection to other sciences. The characteristics and history of fertilization. Mineral nutrition of plants and factors influencing. The chemical structure of plants and the role of nutrient elements. The effects of nutrient supply on crop yield level. Nutrient dynamics and nutrient supply power of soils. Principles of nutrient management in the framework of sustainable development. Role of organic fertilizers, introduces principles of environmentally friendly fertilization. Fertilizers and fertilizer use. Methods of fertilizer recommendation.	PhD., Assoc. Prof. Luybov Margitaj	4	120	44	76
5	Plant growth and development	Hormonal, physiological, environmental, genetical, biophysical, developmental and molecular approaches to the study of plant growth regulation.	PhD., Assoc. Prof. Luybov Margitaj	3	90	44	46
6	Plant biotechnology	Plant biotechnology and its impact on agriculture. Plant tissue culture. Breeding biotechnologies. Genetic engineering.1 Micropropagation	PhD., Assoc. Prof. Luybov Margitaj	3	90	44	46

7	Biochemistry of fruit, vegetables and grapes	Chemical composition of fruits, vegetables and grapes. Cellular and molecular biology and interaction between bimolecules in photosynthesis, respiration, plant nutrition, plant hormone functions which are associated with plant morphology, ecology and environmental effects on plants.	PhD., Assoc. Prof. Luybov Margitaj	2	60	24	36
8	Breeding crops	The nature of crop varieties. Chromosomal mechanisms of heredity. The recombination in plant breeding. Introduction, hybridization, mutations of agricultural plants. Breeding for disease resistance and organization works to improve plant.	PhD., Assoc. Prof. Sheydik Karoline	4	120	40	80
9	Agronomic seeds	Seeds and fruits. Flowering, fertilization and seed formation. The chemical composition of seed. Morphological characteristics and physical - mechanical properties of seed. Clean, sorted and aligned seed. Life dormant seeds. Control of seed size in plants.	PhD., Assoc. Prof. Sheydik Karoline	3	90	40	50
Total:				30	900	376	524