Annotation of elective educational component «Special genetics»

Academic discipline	Special genetics
Tutor	Starostenko Iryna Serhiivna PhD agricultural sciences, associate professor, department of genetics, breeding and selection of animals
Courses and semesters, when the discipline is planning to study	1 course (master degree), 2 semester
Faculties whose students are invited to study discipline	Biological-technological faculty
List of competencies and learning-related outcomes that discipline provides	According to the requirements of the educational-professional program "Technology of production and processing of livestock products" applicants should acquire the ability to obtain the following competencies: GC 1 (general competence). Ability to abstract thinking, analysis and synthesis. GC 2. Skills in using information and communication technologies. PC 3 (professional competence). The ability to organize and control the implementation of measures aimed at improving the selection and breeding work in animal husbandry. PC 10. The ability to clearly and unambiguously convey one's own knowledge, conclusions and arguments to specialists and non-specialists, in particular to people who are studying. The result of studying the discipline is the acquisition by students of the following knowledge and skills: - to carry out research and/or carry out innovative activities with the aim of obtaining new knowledge and creating new technologies and products in the field of animal husbandry and in wider multidisciplinary contexts (to know the genetic parameters of the productivity of livestock, pigs, sheep and goats, horses, poultry, fish, fur animals and agricultural insects); - to apply modern mathematical methods, information technologies and specialized software for research and development in the field of technologies for the production and processing of livestock products (to know the genetic problems of hybridization, inbreeding, outbreeding and inbreeding depression; to know the genetic consequences of selection and genetic engineering technologies);

	- to search for the necessary data in scientific literature, databases and other sources, analyze and evaluate these data (to know the parameters of selection during selection for immunity; to know the basics of hereditary resistance to diseases); - to be responsible for the development of professional knowledge and practices, evaluation of the team's strategic development, formation of an effective personnel policy (to know the achievements of special genetics regarding the heredity and variability of quantitative and qualitative traits of various types of farm animals).
Description of the discipline	
Prerequisites needed for studying the discipline	The selective educational discipline "Special genetics" is based on the knowledge of such disciplines as "Genetics with biometrics", "Morphology of farm animals" studied in the 1st year, and "Physiology of farm animals" "Animal reproduction technology", "Microbiology in animal husbandry", "Biochemistry in animal husbandry", studied in the 2nd year.
Students' limit in a group	20 students
Topics of in-class activity	**Lectures** 1. Introduction. Genetics of cattle. 2. Horse genetics. 3. Pig genetics. 4. Genetics of sheep. 5. Genetics of goats. 6. Genetics of fur animals. 7. Genetics of rabbits. 8. Genetics of fish. 9. Poultry genetics. 10. Insect genetics. **Practical classes** 1. Genetics of cattle. 2. Horse genetics. 3. Genetic defects in pigs. 4. Genetics of sheep and goats. 5. Genetics of fur animals. 6. Genetics of rabbits. 7. Genetics of fish. 8. Poultry genetics. 9. Insect genetics.
Language of teaching	Ukrainian, English