

## The list of academic disciplines of the university component

**7M08 - Agriculture and Bioresources**  
(Code and classification of the field of education)

**7M082 - Livestock**  
(Code and classification of the direction of training)

**0811**  
(Code in the International Standard Classification of Education)

**M132 - Livestock**  
(Code and classification of the educational program group)

**7M08201 - Technology of Production of Livestock Products**  
(Code and name of the educational program)

**Master**  
(Level of preparation)

**set of 2024**

**Developed**

By the Academic Committee of the EP  
The head of the AC Yessengulova N.  
EP Manager Nussupov A.

**Reviewed**

at the meeting of the Commission on Academic Quality of the Faculty of Veterinary Medicine and Agricultural Management by protocol No. 3 of January 09, 2024.

at a meeting of the Academic Quality Commission  
Research School of Veterinary Medicine and Agriculture.

Recommended for approval by the University Academic Council  
Protocol No. 6 dated June 06, 2024

**Approved**

at a meeting of the University Academic Council by protocol No. 6/1 of January 19, 2024.

at a meeting of the University Academic Council by protocol No. 11 of June 28, 2024.

## Foreign language (professional)

Discipline cycle	Basic disciplines
Course	1
Credits count	3
Knowledge control form	Examination

### Short description of discipline

Mastery of general cultural, professional and special competencies for the implementation of professional activities, involving teaching free reading of original literature of the relevant branch of knowledge in a foreign language; development of oral communication skills in monological and dialogical form in the specialty; development of written scientific communication skills on topics related to the scientific work of a graduate student, as well as familiarization with the forms and types of international cooperation in the scientific field.

### Purpose of studying of the discipline

The purpose of studying the discipline "Foreign language (professional)" in the master's degree program is the systematic deepening of communicative competence within the framework of international standards of foreign language education on the basis of further development of skills and abilities of active language proficiency in the professional activity of the future master.

### Learning Outcomes

ON1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.

### Learning outcomes by discipline

- to know the specifics of oral and written speech in the fields of professional, scientific, socio-political relations;
  - to know the national and cultural peculiarities of the creation and organization of a text in a foreign language within the framework of professionally motivated conditions;
  - to know the stylistic features of the vocabulary of a foreign language in the field of professional communication;
- be able to perform:
- implementation of professional activity in linguistic, sociolinguistic, information-analytical and communicative aspects;
  - creating your own verbal and non-verbal order in the fields of professional and scientific socio-political relations;
  - the use of a variety of language and speech means adequate to social factors, communication conditions, the status of the interlocutor and his communicative intentions;
  - be able to organize speech activity as a representative of another culture and the nature of communication in accordance with the tasks of communication, the speech situation, individual characteristics;
- the presence of skills:
- to perceive by ear and understand the appropriate level of messages of a business, informational and vocational nature;
  - dialogical and monological communication within the framework of professional activity;
  - to get acquainted and study business and scientific and technical documentation, which provides for obtaining information from what has been read and using it in speech;
  - have the skills of systematic presentation of thoughts, thinking, information when writing letters of an official, professional nature;

### Prerequisites

Bachelor

### Postrequisites

Final examination

## History and philosophy of science

Discipline cycle	Basic disciplines
Course	1
Credits count	5
Knowledge control form	Examination

### Short description of discipline

Пән ғылыми ойлау мәдениетін зерттеуге бағытталған, аналитикалық мүмкіндіктер мен зерттеу дағдыларын қалыптастырады, болашақ ғалымға қажетті теориялық және практикалық білім береді. Ғылымның тарихи эволюциясын және олар қалыптастыратын философиялық перспективаларды зерттейді. Қазіргі ғылымның пайда болуы, оның әлеуметтік және институционалдық байланыстары сипатталған. Ойлау эксперименттеріне, теорияларды растау мен теріске шығаруға, сандық және жоғары сапалы зерттеу әдістерінің пайда болуы мен қолданылуына байланысты жалпы философиялық мәселелер қарастырылады.

### Purpose of studying of the discipline

магистранттарда жалпыадамзаттық мәдениеттің бір бөлігі ретінде ғылыми ойлаудың тарихы мен философиясын (теориясын) терең түсінуге негізделген пәнаралық дүниетанымды қалыптастыру.

### Learning Outcomes

ON1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.

### Learning outcomes by discipline

be able to apply fundamental scientific, pedagogical, managerial, and communicative knowledge and skills in professional activities

### Prerequisites

Bachelor

### Postrequisites

The research work of a student, including an internship and the implementation of a masters thesis I

## Higher Education Pedagogy

Discipline cycle	Basic disciplines
Course	1
Credits count	3
Knowledge control form	Examination

### Short description of discipline

The course is aimed at studying the main directions, principles and patterns of higher education. During the course of the course, the basic concepts of modern pedagogy, concepts and theories of teaching and upbringing, didactics of higher education will be considered. The master's student will master the skills of designing the organization of the educational process, techniques of individual and group reflection, will be able to correctly formulate pedagogical goals, apply educational technologies in the educational process. In the process, to design work programs of disciplines.

### **Purpose of studying of the discipline**

The purpose of mastering the discipline is to master the system of knowledge about higher education, its content, structure, principles of educational process management and mastering modern technologies in the field of management and organization of the educational process

### **Learning Outcomes**

ON1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.

### **Learning outcomes by discipline**

- Be able to solve the problems of higher pedagogical education and the prospects for its further development;
- Have the skills to consider the application of effective university technologies;
- Solve topical and psychological and pedagogical problems,

### **Prerequisites**

Bachelor

### **Postrequisites**

Teaching practicum

## **Psychology of management**

Discipline cycle	Basic disciplines
Course	1
Credits count	3
Knowledge control form	Examination

### **Short description of discipline**

The content of the course is aimed at mastering the approaches and directions of management psychology, psychological laws of management, features of planning and solving management problems. Students will get acquainted with the psychological methods of resolving conflict situations, master the ways of motivating work, the methods of using effective management styles. Skills will be formed to analyze the psychological causes underlying the decline in the effectiveness of the management process.

### **Purpose of studying of the discipline**

The purpose of the discipline "Psychology of Management" is the formation of scientifically based ideas about the system of mental phenomena, psychological variables of behavior and conscious human activity in modern conditions and allows undergraduates to form skills of applying the acquired psychological knowledge in educational activities

### **Learning Outcomes**

ON1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.

### **Learning outcomes by discipline**

- be able to determine the forms and methods of effective team management;
- develop plans for the development of organizations, provide psychological support for the activities of organizations;
- possess methods of solving managerial tasks.

### **Prerequisites**

Bachelor

### **Postrequisites**

The research work of a student, including an internship and the implementation of a masters thesis I

## **Innovative technologies of livestock products**

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

### **Short description of discipline**

This discipline studies innovative production technologies in various branches of animal husbandry. Highly efficient technologies of herd reproduction, artificial insemination and rearing of young animals of all types of farm animals; new technologies for various systems and methods of feeding and keeping animals; ways to increase the productivity of animals and poultry through the use of new breeding and industrial technologies are considered.

### **Purpose of studying of the discipline**

To acquaint undergraduates with innovative technologies in the field of animal husbandry and poultry farming, namely, increasing production output, ways to improve quality and the ability to compete in a market economy with innovative technologies of growth and development

### **Learning Outcomes**

ON6 To offer highly effective technologies for increasing the productivity of animals and poultry, to analyze the main methods for determining the quality of livestock products.

### **Learning outcomes by discipline**

1. Develops innovative technologies for the production of livestock products in various branches of animal husbandry
2. Agriculture develops effective technologies of artificial insemination and cultivation of all kinds of animals
3. Application of various systems and methods of feeding and keeping livestock and poultry in accordance with new technologies

### **Prerequisites**

Information technology in animal husbandry

### **Postrequisites**

Modern technology of production of meat and milk cattle

## The research work of a student, including an internship and the implementation of a masters thesis I

Discipline cycle	Profiling discipline
Course	1
Credits count	11
Knowledge control form	Total mark on practice

### Short description of discipline

*A detailed review of the literature on the topic of dissertation research Collection of factual material for dissertation work, including the development of data collection methodology, methods of processing results, assessment of their reliability and sufficiency to complete the work on the dissertation.*

### Purpose of studying of the discipline

*Development of the master's student's ability and practical skills of independent implementation of scientific research related to the solution of complex scientific and design-technological tasks in the field of training in innovative conditions*

### Learning Outcomes

*ON7 Apply technologies to improve the gene pool of animals and birds.*

### Learning outcomes by discipline

- 1. Provides a detailed review of the scientific literature on research works in accordance with the topic of the dissertation*
- 2. Includes the collection and analysis of specific materials of the dissertation work*
- 3. Carries out complex scientific and design-technological research on training in innovative conditions*

### Prerequisites

*Methodology of scientific-research work*

### Postrequisites

*The research work of a student, including an internship and the implementation of a masters thesis II*

## Teaching practicum

Discipline cycle	Basic disciplines
Course	2
Credits count	6
Knowledge control form	Total mark on practice

### Short description of discipline

*The pedagogical practice of a graduate student is an essential component and an integral part of the educational process of undergraduates. This type of practice performs the functions of general professional training in terms of preparing undergraduates for teaching at a university. The pedagogical practice of a master's student is a complex of educational and methodological works in order to master pedagogical skills and develop professional and practical competencies of students.*

### Purpose of studying of the discipline

*Familiarity with the specific conditions of professional pedagogical activity, consolidation and deepening of theoretical knowledge of the undergraduate and the acquisition of practical skills and competencies in the field of professional activity*

### Learning Outcomes

*ON1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.*

### Learning outcomes by discipline

- 1. selection of the content and construction of classes in various types of educational institutions, taking into account the laws of pedagogy and psychology, modern requirements of didactics (scientific);*
- 2. actualization and stimulation of the creative approach of undergraduates to conducting classes based on the development of students as subjects of the educational process (creativity);*
- 3. taking into account the scientific interests of undergraduates (the practice provides for classes in subjects and disciplines corresponding to the research interests of undergraduates).*

### Prerequisites

*Higher Education Pedagogy*

### Postrequisites

*Research scientific training*

## Current problems of animal husbandry

Discipline cycle	Profiling discipline
Course	2
Credits count	5
Knowledge control form	Examination

### Short description of discipline

*The discipline is aimed at studying modern problems of animal husbandry in the Republic of Kazakhstan and the world, special attention is paid to environmental problems and marketing activities in animal husbandry. The following are considered: a closed cycle of production of animal products and the sale of products by the manufacturer; DNA technologies in the breeding of farm animals; genomic data in poultry breeding; computerization of breeding work and production of animal products.*

### Purpose of studying of the discipline

*Formation of theoretical and practical skills on topical issues of zootechnical science and production, improvement of technological processes for the production of livestock products in farms of various forms of ownership*

### Learning Outcomes

*ON7 Apply technologies to improve the gene pool of animals and birds.*

### Learning outcomes by discipline

- 1. Studies modern problems of animal husbandry industries in the Republic of Kazakhstan and in the world*

2. Special attention is paid to environmental problems and marketing activities in animal husbandry.

3. Application of DNA technologies in the breeding of farm animals

#### **Prerequisites**

Modern technologies in production of poultry farms

#### **Postrequisites**

Research scientific training

### **The research work of a student, including an internship and the implementation of a masters thesis**

#### **II**

Discipline cycle	Profiling discipline
Course	2
Credits count	4
Knowledge control form	Total mark on practice

#### **Short description of discipline**

A detailed review of the literature on the topic of dissertation research Collection of factual material for dissertation work, including the development of data collection methodology, methods of processing results, assessment of their reliability and sufficiency to complete the work on the dissertation.

#### **Purpose of studying of the discipline**

Development of the master's student's ability and practical skills of independent implementation of scientific research related to the solution of complex scientific and design-technological tasks in the field of training in innovative conditions

#### **Learning Outcomes**

ON5 Apply advanced technologies in the preparation of feeding rations, feed evaluation and animal feeding.

ON6 To offer highly effective technologies for increasing the productivity of animals and poultry, to analyze the main methods for determining the quality of livestock products.

#### **Learning outcomes by discipline**

1. Gives a detailed review of the scientific literature on research papers in accordance with the topic of the dissertation
2. Includes the collection and analysis of specific materials of the dissertation work
3. Carries out complex scientific and design-technological research on training in innovative conditions

#### **Prerequisites**

The research work of a student, including an internship and the implementation of a masters thesis I

#### **Postrequisites**

The research work of a student, including an internship and the implementation of a masters thesis III

### **Research scientific training**

Discipline cycle	Profiling discipline
Course	2
Credits count	13
Knowledge control form	Total mark on practice

#### **Short description of discipline**

Analyzes and critically evaluates the results of its own scientific research. Identifies scientific priorities, as well as formulates actual scientific tasks and problems. Substantiates and formulates the relevance, theoretical and practical significance of the chosen topic of scientific research.

#### **Purpose of studying of the discipline**

Formation and development of professional knowledge among undergraduates in the field of their chosen specialty, consolidation of theoretical knowledge gained in the disciplines of the direction and special disciplines of the master's program, mastering the necessary professional competencies in the chosen direction of specialized training

#### **Learning Outcomes**

ON4 To develop methods of comprehensive assessment and effective use of modern biologically based technologies for the production of animal products.

ON6 To offer highly effective technologies for increasing the productivity of animals and poultry, to analyze the main methods for determining the quality of livestock products.

#### **Learning outcomes by discipline**

1. Analyzes and critically evaluates the results of its own scientific research.
2. Identifies scientific priorities, as well as formulates actual scientific tasks and problems.
3. Substantiates and formulates the relevance, theoretical and practical significance of the chosen topic of scientific research.

#### **Prerequisites**

Teaching practicum

#### **Postrequisites**

Final examination

### **The research work of a student, including an internship and the implementation of a masters thesis**

#### **III**

Discipline cycle	Profiling discipline
Course	2
Credits count	9
Knowledge control form	Total mark on practice

#### **Short description of discipline**

A detailed review of the literature on the topic of dissertation research Collection of factual material for dissertation work, including the development of data collection methodology, methods of processing results, assessment of their reliability and sufficiency to complete

*the work on the dissertation.*

**Purpose of studying of the discipline**

*Development of the master`s student`s ability and practical skills of independent implementation of scientific research related to the solution of complex scientific and design-technological tasks in the field of training in innovative conditions*

**Learning Outcomes**

*ON7 Apply technologies to improve the gene pool of animals and birds.*

*ON8 To develop new technologies in the breeding of farm animals and poultry, to investigate and evaluate the breeding and economic purpose of animals.*

**Learning outcomes by discipline**

- 1. Gives a detailed review of the scientific literature on research papers in accordance with the topic of the dissertation*
- 2. Includes the collection and analysis of specific materials of the dissertation work*
- 3. Carries out complex scientific and design-technological research on training in innovative conditions*

**Prerequisites**

*The research work of a student, including an internship and the implementation of a masters thesis II*

**Postrequisites**

*Final examination*