

The list of academic disciplines of the university component

7M01 - Pedagogical sciences

(Code and classification of the field of education)

7M015 - Teacher training in natural science subjects

(Code and classification of the direction of training)

0114

(Code in the International Standard Classification of Education)

M010 - Mathematics teacher training

(Code and classification of the educational program group)

7M01501 - Mathematics

(Code and name of the educational program)

Master

(Level of preparation)

set of 2023

Developed

By the Academic Committee of the EP
The head of the AC Mukaev Zhandos
EP Manager Sydykova Ayaulym

Reviewed

At the meeting of the Quality Assurance Commission
Natural and Mathematical of the faculty
Recommended to be for approved
by the Academic Council of the University
Record No 4.1 "04" April 2023 y.
Chairman of the Commission Zheldybaeva B.

Approved at the meeting of the Academic Council of the University Protocol No. 8 "25" April 2023.

Approved

at the meeting of the Academic Council of the University
Protocol № 1 "01" of September 2023
Chairman of the Academic Council of the University Orynbekov D.R.

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

ON 1 Apply fundamental scientific, pedagogical, managerial, communicative knowledge and skills in professional activities.

*- 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

The discipline is aimed at studying the culture of scientific thinking, forms analytical capabilities and research skills, provides theoretical and practical knowledge necessary for a future scientist. Explores the historical evolution of the sciences and the philosophical perspectives they form. The origins of modern science, its social and institutional connections are described. General philosophical issues related to thought experiments, confirmation and refutation of theories, the origin and application of quantitative and high-quality research methods are considered.

Purpose of studying of the discipline

the formation of an interdisciplinary worldview among undergraduates, based on a deep understanding of the history and philosophy (theory) of scientific thinking, as part of a universal culture.

Learning Outcomes

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

Learning outcomes by discipline

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

Prerequisites

Bachelor

Postrequisites

Final examination

Tertiary education

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

- Solves the problems of higher pedagogical education and the prospects for its further development;
- Considers the application of effective university technologies;
- Solves topical and psychological and pedagogical problems,

Prerequisites

Bachelor

Postrequisites

Final examination

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

- they are 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

Final examination

Research activity of students in mathematics

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

Short description of discipline

Purpose of studying of the discipline

Learning Outcomes

ON2 To summarize the results of experimental research and analytical work in the form of a masters thesis, an article, a report, an analytical note, etc.

Learning outcomes by discipline

Prerequisites

Basic and profile disciplines of the EP

Postrequisites

Final examination

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

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

Short description of discipline

Purpose of studying of the discipline

Learning Outcomes

ON2 To summarize the results of experimental research and analytical work in the form of a masters thesis, an article, a report, an analytical note, etc.

Learning outcomes by discipline

Prerequisites

Masters degree course

Postrequisites

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

Fundamental aspects of algebra, geometry and logic

Discipline cycle Profiling discipline

Course 1

Credits count 5

Knowledge control form Examination

Short description of discipline

Purpose of studying of the discipline

Learning Outcomes

ON3 Defend your point of view, demonstrating analytical and logical thinking skills, relying on facts, theories and scientific results of mathematics, analyze the effectiveness of their functioning of applied tasks.

Learning outcomes by discipline

Prerequisites

Bachelor

Postrequisites

Final examination

Pedagogical practice

Discipline cycle Basic disciplines

Course 2

Credits count 6

Knowledge control form Total mark on practice

Short description of discipline

Purpose of studying of the discipline

Learning Outcomes

ON7 Possess advanced experience of mathematics teachers in the organization of educational, research activities of schoolchildren and students.

Learning outcomes by discipline

Prerequisites

Basic and profile disciplines of the EP

Postrequisites

Final examination

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

Purpose of studying of the discipline

Learning Outcomes

ON2 To summarize the results of experimental research and analytical work in the form of a masters thesis, an article, a report, an analytical note, etc.

Learning outcomes by discipline

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

Practice research

Discipline cycle Profiling discipline

Course 2

Credits count 13

Knowledge control form Total mark on practice

Short description of discipline

Purpose of studying of the discipline

Learning Outcomes

ON2 To summarize the results of experimental research and analytical work in the form of a masters thesis, an article, a report, an

analytical note, etc.

Learning outcomes by discipline

Prerequisites

Basic and profile disciplines of the EP

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

Purpose of studying of the discipline

Learning Outcomes

ON2 To summarize the results of experimental research and analytical work in the form of a masters thesis, an article, a report, an analytical note, etc.

Learning outcomes by discipline

Prerequisites

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

Postrequisites

Final examination