

The list of academic disciplines of the university component

6B01 - Pedagogical sciences

(Code and classification of the field of education)

6B015 - Teacher training in natural science subjects

(Code and classification of the direction of training)

0114

(Code in the International Standard Classification of Education)

B014 - Geography teacher training

(Code and classification of the educational program group)

6B01512 - Geography-History

(Code and name of the educational program)

Bachelor

(Level of preparation)

set of 2023

Developed

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Reviewed

At the meeting of the Quality Assurance Commission
Natural and Mathematical of the faculty
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Chairman of the Commission Zheldybayeva B.S.

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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.

Introduction to the profession of geography and history teacher

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

Short description of discipline

In this course, students will learn about the concept of a teacher, its meaning, the function of the profession, the requirements for a modern teacher, and the prospects for the development of the pedagogical profession. Considers the description of pedagogical action and its constituent elements. Get acquainted with the professional and personal formation and development of the teacher, his competence, legal bases of pedagogical activities. learns the profession by performing various tasks that require creativity.

Purpose of studying of the discipline

ensuring the education of students in pedagogical activity and professional skills

Learning Outcomes

ON6 To educational material on all issues of the school and university program of geographical and historical disciplines for everyday professional activities.

ON7 Apply a variety of teaching and upbringing methods in geography and history lessons.

Learning outcomes by discipline

- to promote the development of students` interest in the teaching profession, the activity of a teacher;

-- to form the foundations of the basic pedagogical culture, creative self-realization in the professional activity of the teacher

- to activate the process of personal and professional self-knowledge, self-development and self-education of students, taking into account

their individual characteristics.

Prerequisites

School course

Postrequisites

Pedagogy

Age psychology and physiology

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

Short description of discipline

In the course of studying the discipline, a holistic, systemic understanding of human development, mental development in ontogenesis, the basic age patterns of human development throughout the life course, the most important mental characteristics of an emerging personality at various age stages is formed.

Purpose of studying of the discipline

Formation of students` ideas about the diversity of approaches to the development of correct, scientific knowledge, mental and physiological development of a person in ontogenesis on the most important issues of psychology and physiological development in the aspect of cultural development. To equip students with theoretical and practical knowledge that contributes to strengthening their professional psychological, pedagogical and physiological training, in-depth study of the section of psychological and physiological knowledge.

Learning Outcomes

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

Learning outcomes by discipline

ON 2 Has knowledge about the psychological and age-related characteristics of the individual.

Prerequisites

School course

Postrequisites

Pedagogical practice (psychological and pedagogical)

Bases of economics, law and ecological knowledge

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

Short description of discipline

The integrated discipline includes the main issues and principles in the field of fundamentals of law and anti-corruption culture, economics, entrepreneurship and leadership, ecology and life safety. Features of the use of regulatory legal acts, the ability to use the business, ethical, social, economic, entrepreneurial and environmental standards of society. Specifics of environmental-legal, economic, entrepreneurial relations, leadership qualities and principles of combating corruption.

Purpose of studying of the discipline

It consists in studying the basic patterns of the functioning of living organisms, the biosphere as a whole and the mechanisms of their sustainable development under the conditions of anthropogenic impact and emergency situations; in understanding the concept of corruption, the legitimacy of the fight against it, the content of the state penal policy; in the formation of students` basic fundamental stable knowledge on the basics of economic theory, in instilling the skills and abilities of economic thinking; in introducing students to

the theory and practice of entrepreneurship, to the basics of creating their own business; in the formation of theoretical knowledge and practical skills for the development and improvement of leadership qualities.

Learning Outcomes

ON 1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technology, taking into account modern trends in the development of society.

Learning outcomes by discipline

- ☒ analyzes the issues of safety and conservation of the natural environment as the most important priorities of life;
- ☒ demonstrates knowledge of the fundamentals of nature management and sustainable development, assesses the impact of man-made systems on the environment;
- ☒ shows knowledge of the main regulatory legal acts of the Republic of Kazakhstan, their understanding and application;
- ☒ shows knowledge of the patterns of development of economic processes, clearly formulates his own position, finds and clearly sets out arguments in its defense;
- ☒ is able to characterize the types of entrepreneurial activity and the entrepreneurial environment, draw up a business plan, create an entrepreneurial structure and organize its activities;
- ☒ knows the fundamental provisions about the role of leadership in managing large and small social groups.

Prerequisites

School course

Postrequisites

Basic and profile disciplines of the EP

Pedagogy

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

Short description of discipline

The content of the discipline is aimed at forming students' holistic understanding of the theoretical and methodological foundations of pedagogical science and the essence of professional pedagogical activity. Studying the course allows you to form the necessary knowledge about the content, principles, forms and methods of organizing a holistic pedagogical process in an educational environment. The study of the course forms the necessary competencies for the successful implementation of modern approaches in teaching and learning.

Purpose of studying of the discipline

Pedagogy as an academic discipline aims to form students' knowledge about the object and subject of pedagogy, its functions, categorical apparatus, methodology of science. The study of the course provides for the formation of the necessary competencies in the design and evaluation of the pedagogical process in the conditions of an educational institution. The content of the discipline topics allows you to acquire knowledge and skills in the selection and successful application of forms, means, methods of teaching and upbringing.

Learning Outcomes

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

Learning outcomes by discipline

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

1. Knows the basic concepts of the theory of the subject
2. Has knowledge in the system of pedagogical training and makes decisions taking into account the holistic pedagogical process
3. Applies the basic skills of the teacher's profession

Prerequisites

School course

Postrequisites

Basic and profile disciplines of the EP

Educational practice

Discipline cycle	Basic disciplines
Course	1
Credits count	2
Knowledge control form	Total mark on practice

Short description of discipline

Students get acquainted with the standard curricula of the subject, the structure and content of state mandatory standards, the regulatory framework, including the updated content of secondary education in professional activity, the features of pedagogical activity, important professional qualities of a teacher, pedagogical competence. Students form ideas about planning a professional career of a geography and history teacher and an interest in the teaching profession.

Purpose of studying of the discipline

Mastering by students the skills and abilities necessary for the development and creative formation of a future teacher.

Learning Outcomes

ON6 To educational material on all issues of the school and university program of geographical and historical disciplines for everyday professional activities.

ON7 Apply a variety of teaching and upbringing methods in geography and history lessons.

Learning outcomes by discipline

- promote the development of students' interest in the teaching profession and the activities of a teacher;

- to form the foundations of basic pedagogical culture, creative self-realization in professional activities

teachers

- to intensify the process of personal and professional self-knowledge, self-development and self-education of students, taking into account

their individual characteristics.

Prerequisites

Introduction to the profession of geography and history teacher

Postrequisites

Pedagogical practice

Inclusive education

Discipline cycle Basic disciplines

Course 2

Credits count 3

Knowledge control form Examination

Short description of discipline

When studying the discipline, students acquire knowledge about the principles and methodological foundations of inclusive education. Ideas are being formed about modern models of psychological and pedagogical support for children with special needs, the elimination of existing barriers in the legal support of inclusive education and the competence of organization and management in the area of inclusive practice. Get an idea about the models of psychological and pedagogical support for children with disabilities in educational institutions.

Purpose of studying of the discipline

The purpose of this discipline is to familiarize students with the basic provisions of the organization and management of inclusive processes in education; the formation of a dynamic, effective, self-improving specialist, ready for professional activity in an inclusive education, owning innovative technologies for building an educational route for all students, taking into account their individual needs and capabilities, able to provide social psychological and pedagogical support for children and their families.

Learning Outcomes

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

Learning outcomes by discipline

1. Scientific and practical ideas about the integration of children with disabilities are being formed.
2. Acquainted with the methodological and managerial work of educational organizations in the context of inclusive practice.
3. Understands the peculiarities of the education of children with disabilities in the educational process in inclusive educational organizations.

Prerequisites

Age psychology and physiology

Postrequisites

Pedagogical practice (psychological and pedagogical)

General geography

Discipline cycle Basic disciplines

Course 2

Credits count 5

Knowledge control form Examination

Short description of discipline

This course looks at the components of the earth's crust and general planetary properties, the study of the landscape and the landscape sphere, research methods and scientific directions of physical geography.

Students study the components of the earth's crust, taking into account the knowledge gained in the disciplines of the natural cycle, and receive systematized knowledge about their features and patterns of development.

Purpose of studying of the discipline

Formation of knowledge about the geographical shell, its structure, the relationship between the geographical environment and society.

Learning Outcomes

ON9 Describe the patterns of formation of natural complexes and identify the features of the interaction between nature and society at the present stage.

Learning outcomes by discipline

-Explain the state and prospects for the development of geographical science and its role in modern scientific knowledge about nature and society;

- analyze graphs of the connection between natural phenomena, diagrams that facilitate a comparative analysis of the territory or various components of the geographic envelope;

- compile climatic, hydrological and other natural characteristics of territories in text, tabular or graphical forms from various sources.

Prerequisites

School course

Postrequisites

Physical geography of continents and oceans

Technologies of the updated content of education and criteria assessment

Discipline cycle Basic disciplines

Course 2

Credits count 5

Short description of discipline

In this course, students are fully acquainted with the general geographical shell, their interaction and the laws of the geographical shell, as well as with the local features of the structure of the geographical environment. During the course, students will learn to identify the main geographical patterns, explore the geographical system united by the flows of matter and energy, correlate, combine natural territories, natural landscapes, evaluate any geographical object.

Purpose of studying of the discipline

Improving the professional competence of future teachers by providing them with detailed information about the updated educational content

Learning Outcomes

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

Learning outcomes by discipline

-Explain the Technology of criteria-based assessment of students, the results of project activities, the results of the educational process, the educational achievements of students, the educational activities of students;

-Identify the results of educational activities of participants in the educational process from the standpoint of criteria-based assessment;

- Carry out a criteria-based assessment of the activities of an educational institution

Prerequisites

Pedagogy

Postrequisites

Basic and profile disciplines of the EP

World of Abai

Discipline cycle	Basic disciplines
Course	2
Credits count	3
Knowledge control form	Examination

Short description of discipline

The discipline is aimed at studying historical facts, the philosophical and artistic foundations of the works of Abay Kunanbaev, Shakarim Kudaiberdiev, which form worldview and aesthetic values, the student's ability to express his opinion, practical skills and perception of such human qualities as morality, honesty, artistic character. The genius of the writers of Kazakh literature and the role of M. Auezov in the study and popularization of Abai's heritage, the significance of his works for history, literature and science are determined.

Purpose of studying of the discipline

Formation of the meaning of philosophical and ideological being, understanding of the problems raised in the works of Abai Kunanbayuly, Shakarim Kudaiberdiyul, Mukhtar Auezov and application of the acquired knowledge in the practice of everyday life.

Learning Outcomes

ON 1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technology, taking into account modern trends in the development of society.

Learning outcomes by discipline

1) Analyzes the philosophical and artistic foundations of works, historical facts related to the creative heritage of Abai Kunanbayev, Shakarim Kudaiberdiyev, Mukhtar Auezov

2) Uses in practice the humanistic ideas of Abai's philosophical and artistic works

3) Assesses the place and significance of Abai's works in the history of literature and science

Prerequisites

The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Postrequisites

Basic and profile disciplines of the EP

Pedagogical practice

Discipline cycle	Basic disciplines
Course	2
Credits count	1
Knowledge control form	Total mark on practice

Short description of discipline

To deepen and consolidate theoretical knowledge and learn how to apply it in solving specific pedagogical tasks. To form and develop pedagogical skills and skills, professionally significant

personal qualities. Education of innovative creative type of thinking among students. To teach to plan a system of lessons on a specific topic and to choose various forms and methods of teaching geography and history, to establish interdisciplinary connections, to make a lesson summary, taking into account educational, educational and developmental functions of learning.

Purpose of studying of the discipline

consolidation, deepening and development of theoretical knowledge acquired at the University, the development of professional skills, skills and specific (pedagogical) thinking, the formation of professional and personal qualities, preparation of students for the integral performance of the functions of a subject teacher and class teacher.

Learning Outcomes

ON6 To educational material on all issues of the school and university program of geographical and historical disciplines for everyday professional activities.

ON7 Apply a variety of teaching and upbringing methods in geography and history lessons.

Learning outcomes by discipline

1) acquire new knowledge using modern educational and information technologies;

2) understand the principles of work and methods of pedagogical activity;

3) search, critical analysis and synthesis of information, apply a systematic approach to solve the tasks.

Prerequisites

Pedagogy

Postrequisites

Pedagogical practice

Field training practice

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

Short description of discipline

In educational practice, students master working with maps and symbols, navigate the terrain without a map and with a map, make a topographic map of the area, perform simple measurements of meteorological quantities and observations of atmospheric phenomena, process and analyze meteorological observations.

Getting acquainted with the methods of archaeological research, students take part in archaeological research directly in the course of field archaeology and master the methodological foundations of archaeological exploration and excavations.

Purpose of studying of the discipline

development of students` field observation and research skills.

Learning Outcomes

ON3 Integrate the main provisions, concepts and laws in the field of historical disciplines when explaining theoretical and practical tasks.

ON9 Describe the patterns of formation of natural complexes and identify the features of the interaction between nature and society at the present stage.

Learning outcomes by discipline

- 1. consolidation of theoretical knowledge gained by students in classroom classes*
- 2. mastering the methodology of field research, maintaining primary documentation (making a portfolio);*
- 3. development of skills of independent work in the field*

Prerequisites

Cartography with the basics of topography Meteorology with the basics of climatology History of Kazakhstan the middle ages

Postrequisites

Pedagogical practice

Methods of teaching history

Discipline cycle	Basic disciplines
Course	3
Credits count	5
Knowledge control form	Examination

Short description of discipline

This course examines theoretical issues of history teaching in higher education on the basis of the methodology of history lesson organisation and the updated high school curriculum. You learn how to teach history using visual aids, historical documents, traditional and non-traditional types of lessons and the organisation of extra-curricular activities, and use them in practical classes and teaching practice.

Purpose of studying of the discipline

formation of comprehensive knowledge on the methodology of teaching history

Learning Outcomes

ON6 To educational material on all issues of the school and university program of geographical and historical disciplines for everyday professional activities.

ON7 Apply a variety of teaching and upbringing methods in geography and history lessons.

Learning outcomes by discipline

- 1) determine the basics of building the educational process in history lessons at school*
- 2) develop a calendar and thematic plan and a lesson plan*
- 3) present the results of their teaching activities*

Prerequisites

Pedagogy

Postrequisites

Studying the history of the native land in high school

Electronic educational resources

Discipline cycle	Basic disciplines
Course	3
Credits count	5
Knowledge control form	Examination

Short description of discipline

This course is aimed at preparing students of pedagogical specialties to develop flexibility and skills in the field of modern information, communication and educational technologies. The course has a structure that includes independent modules. During the course, he gets acquainted with the methods of creating electronic educational materials on the subject.

Exploring the possibilities of modern tools and online services for creating digital educational resources, training in working with tools for creating graphics and infographics.

Purpose of studying of the discipline

Studying the possibilities of using electronic educational resources in solving professional problems.

Learning Outcomes

ON4 To develop educational resources using modern means of information and information technologies in the educational process.

ON5 Explain the results of experimental research in the form of a report, a scientific report, a report, conclusions.

Learning outcomes by discipline

1) To master the stages of development of electronic educational resources, modern tools and services for creating digital educational resources, educational sites and electronic courses, mastering the work with educational platforms, portals and sites

2) develop scenarios for the simplest electronic educational resources using various modern educational technologies: integrated and developmental education, information, student-centered, etc;

3) Use the main varieties, features of the methodology for creating electronic educational resources.

Prerequisites

Information and communication technology

Postrequisites

Application of ICT in the teaching of geography

Pedagogical practice

Discipline cycle	Basic disciplines
Course	3
Credits count	5
Knowledge control form	Total mark on practice

Short description of discipline

Pedagogical practice allows students to improve the knowledge gained in previous courses, learn how to apply them in practice, master various teaching methods. During the practice, he fully learns to conduct a pedagogical and psychological analysis of schoolchildren, draw up a lesson plan using modern educational technologies, and effectively use it in practice.

In addition, they analyze and summarize the knowledge gained in the course of practice, form ways of organizing office work.

Purpose of studying of the discipline

formation of students` complete understanding of the chosen profession, acquaintance with the main types and directions of professional activity.

Learning Outcomes

ON6 To educational material on all issues of the school and university program of geographical and historical disciplines for everyday professional activities.

ON7 Apply a variety of teaching and upbringing methods in geography and history lessons.

Learning outcomes by discipline

1) acquire new knowledge using modern educational and information technologies;

2) understand the principles of work and methods of pedagogical activity;

3) to search, critically analyze and synthesize information, to apply a systematic approach to solving the tasks.

Prerequisites

Educational practice Pedagogical practice

Postrequisites

Undergraduate practice Productive (pedagogical) Practice

Application of ICT in the teaching of geography

Discipline cycle	Basic disciplines
Course	3
Credits count	5
Knowledge control form	Examination

Short description of discipline

This discipline introduces students to the possibilities of using various educational applications and information and communication technologies in geography lessons. Students study approaches and services for creating digital educational resources, learn how to effectively use information and communication technologies in geography lessons at school. Students acquire the skills to work with educational platforms, websites and learn to apply the acquired knowledge in their professional activities.

Purpose of studying of the discipline

The acquisition of professional and personal competencies that allow students to use modern information and communication technologies in various areas of professional activity, scientific and practical activities, self-study and other purposes.

Learning Outcomes

ON4 To develop educational resources using modern means of information and information technologies in the educational process.

ON5 Explain the results of experimental research in the form of a report, a scientific report, a report, conclusions.

Learning outcomes by discipline

1) Demonstrate knowledge of the use of modern information and communication technologies for collecting, processing and analyzing information;

2) explain the principles of information and communication technologies and e-learning;

3) determine the main trends in the field of information and communication technologies;

Prerequisites

Electronic educational resources

Postrequisites

Productive (pedagogical) Practice

Physical geography of continents and oceans

Discipline cycle	Profiling discipline
Course	3

Credits count	5
Knowledge control form	Examination

Short description of discipline

During the course, students develop a system of physical and geographical knowledge about the diversity of the nature of the continents and

natural factors that determine the regional features of the oceans and territories

water bodies, their impact on human life and the ecological situation. Based on the course, the diversity of the nature of continents and oceans is considered in detail and the physical and geographical features of the planet are described in detail.

Purpose of studying of the discipline

knowledge of the general planetary and regional patterns of formation, functioning spatial differentiation and economic use natural geosystems of a large taxonomic rank, such as the mainland, country, region.

Learning Outcomes

ON9 Describe the patterns of formation of natural complexes and identify the features of the interaction between nature and society at the present stage.

Learning outcomes by discipline

- 1) Demonstrate your knowledge of the general theoretical foundations of the physical geography of continents and oceans*
- 2) Explain the features of the nature of various regions of the Earth;*
- 3) Apply geographic research methods for processing, analyzing and synthesizing geographic information*

Prerequisites

General geography

Postrequisites

Nature management and geoecology

Scientific basis of research

Discipline cycle	Basic disciplines
Course	4
Credits count	4
Knowledge control form	Examination

Short description of discipline

This course allows students to form competencies in the field of organization, planning and conducting research work as the basis for the professional training of future teachers. The course includes the study of the essence of scientific knowledge, methods of scientific research, organization and

planning of research activities. When studying the course, students realize the importance of research work, the ways of its organization, master the ways of its effective implementation in the scientific field.

Purpose of studying of the discipline

to acquaint students with the main types of scientific activity and the specifics of the implementation of scientific research

Learning Outcomes

ON5 Explain the results of experimental research in the form of a report, a scientific report, a report, conclusions.

ON8 Interpret information and sources in terms of their reliability and scientific character.

Learning outcomes by discipline

- to formulate the principles of organization and planning of scientific work;*
- plan and conduct an experiment, process measurement results, compare experimental results with theoretical models and formulate conclusions of scientific research;*
- to make a report or an article based on the results of scientific research.*

Prerequisites

Methodology of geograph training Methods of teaching history Pedagogy

Postrequisites

Productive (pedagogical) Practice

Forms and methods of organizing STEM training

Discipline cycle	Basic disciplines
Course	4
Credits count	5
Knowledge control form	Examination

Short description of discipline

In this training course, students will get acquainted with the theoretical and methodological foundations of the possibilities of integrating educational tasks in the scientific direction of natural science and mathematics. STEM teaches you how to build a modern lesson using technology in education. The course develops students' skills in developing and researching relevant cases and specific research tasks for the educational process. Learns to use innovative technologies that promote the development of research skills, fact-checking and collaboration.

Purpose of studying of the discipline

Meeting the educational needs of future teachers and using various methods and tools, including the integration of research, information society, mathematics, geography, chemistry, biology and technologies available in the educational content of STEAM

Learning Outcomes

ON2 Apply modern teaching technologies and criteria-based assessment, taking into account the individual, physiological and psychological characteristics of students.

Learning outcomes by discipline

- 1) engage in communication with subjects about solving an educational problem;*
- 2) to model the image of future activity (constructive, project, speech, etc.);*

3) to apply creative mechanisms for the implementation of the idea (own products: projects, creative inventions, model, game, etc

Prerequisites

School course

Postrequisites

Productive (pedagogical) Practice