



PASSPORT OF THE EDUCATIONAL PROGRAM

• 6B01512 - Chemistry - Biology

PURPOSE OF THE EDUCATIONAL PROGRAM

Preparing competitive teachers of chemistry and biology who have practical skills and leadership qualities, who are able to educate and shape a comprehensively developed student's personality; formation of systematized knowledge in the field of chemistry and biology; organization of the educational process and project activities in chemistry and biology at the modern scientific and methodological level.

AREA OF PROFESSIONAL ACTIVITY

- educational (pedagogical);
- teaching and educational;
- educational and technological;
- social and pedagogical;

LEARNING OUTCOMES (LO)

LO1 - systematizes and interprets the theoretical foundations and methodological approaches of the modern history of Kazakhstan and philosophy, independently analyzes economic data and processes, the main modern historical events of the socio-economic, political and cultural development of the Republic of Kazakhstan at the present stage and plans its future;

LO2 - realizes the high social significance of the profession, the principles of professional ethics, uses knowledge of the subject area, pedagogical measurements, trends in the development of the education system, regulatory legal acts and the foundations of electronic documentation in teaching;

LO3 - uses communication in oral and written forms in the state, Russian and foreign languages for solving problems of interpersonal, intercultural and professional interaction;

LO4 - applies various types of information and communication technologies for the search, storage, processing, protection and dissemination of information in the research and project activities of students and in the educational process;

LO5 - implements the principles of self-organization and self-education throughout life, focus on a healthy lifestyle to ensure full-fledged social and professional activities, to form a health culture of students, comply with labor protection requirements;

LO6 - provides training, education and development, taking into account the social, age, psychophysical and individual characteristics of students, including those with special educational needs;

LO7 - sets goals and formulates tasks related to the implementation of their activities in general and applied aspects of chemistry;

LO8 - evaluates the relationship of natural components to identify patterns of natural disciplines and provides the necessary conditions to improve the effective educational process of natural disciplines;

LO9 - applies modern means of assessing learning outcomes and other innovative teaching methods, especially the teaching of chemistry and biology with the updated content of education.

LO10 - applies knowledge of the theoretical and experimental foundations of chemistry, biology and technologies for teaching chemistry-biology, owns methods of forming subject skills and abilities of schoolchildren, as well as methods of forming interest in chemistry and biology and using knowledge in the field of chemistry and biology in everyday life.

LO11 - systematizes and summarizes sectoral, regional, national and international problems in the context of chemical and biological research, identifies environmental problems of a domestic and educational nature and suggests optimal ways to protect and protect people, various options for improving the environment;

LO12 - demonstrates knowledge of the fundamentals of entrepreneurship in the system of vocational education, ensuring the creation of new services - knowledge, abilities, skills, competencies of students, develops professional potential, which activates his personal growth and stimulates leadership qualities.