



EDUCATIONAL PROGRAM

7M05 - Natural Sciences, Mathematics and Statistics
(Code and classification of the field of education)

7M051 - Biological and related sciences
(Code and classification of the direction of training)

0510
(Code in the International Standard Classification of Education)

M080 - Biology
(Code and classification of the educational program group)

7M05101 - Biology
(Code and name of the educational program)

Master
(Level of preparation)

Semey

Educational program

7M01 – Pedagogical sciences

(Code and classification of the field of education)

7M015 - Training of teachers in Natural science subjects

(Code and classification of the direction of training)

0114

(Code in the International Standard Classification of Education)

M014 - Training of teachers of biology (kazakh, russian, english language)

(Code and classification of the educational program group)

7M01505 - Biology

(Code and name of the educational program)

Master

(Level of preparation)

PREFACE

Developed

The educational program 7M01505 - Biology in the direction of preparation 7M015 - Training of teachers in science subjects on the basis of the State Compulsory Standards of Higher and Postgraduate Education approved Order of the Ministry of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No 2 amended by the order) was developed by the Academic Committee dated 20.02.2023 No 66).

Members of the Academic Committee	Full name	Academic degree, academic title, position
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Reviewing

Full name of the reviewer	Position, place of work
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Reviewed

At the meeting of the Quality Assurance Commission Natural and Mathematical of the faculty Record No 3, January 09, 2024 y.

At the meeting of the Commission on Academic Quality
Recommended for approval by the Academic Council of the University
Protocol No. 1 "06" June 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.

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1.Introduction

1.1.General data

The Educational Department of Natural Sciences of the Faculty of Natural Mathematics of the Semey University named after Shakarim provides training under the educational program 7M01505 "Biology". Educational program 7M01505 "Biology" is intended for preparation of masters with an in-depth theoretical and practical knowledge in the field of biology education and teaching, have ideas of new directions of modern biology, understanding modern problems of biology and is able to apply the acquired competence in scientific and educational spheres.

When implementing the educational program, it is planned to use artificial intelligence tools in the educational process, thereby developing digital competencies among students in a rapidly changing technological environment.

The educational program provides for the education of a student with special educational needs in the conditions of a higher educational institution, as well as his socialization and integration into society.

1.2.Completion criteria

The main criterion for the completion of the educational process for the preparation of masters of the scientific and pedagogical direction is the development of at least 88 credits of theoretical training, including 6 credits of pedagogical practice, 13 credits of research practice, as well as at least 24 credits of research work of a master`s student, including internships and the completion of a master`s thesis, at least 8 credits of the final attestations . A total of 120 credits.

1.3.Typical study duration: 2 yers

2.PASSPORT OF THE EDUCATIONAL PROGRAM

2.1.EP purpose	Preparation of masters with in-depth, theoretical and practical knowledge in the field of modern areas of biological Sciences and methods of teaching biology, and are able to apply their competencies in the scientific, practical and pedagogical spheres.
2.2.Map of the training profile within the educational program	
Code and classification of the field of education	7M01 - Pedagogical sciences
Code and classification of the direction of training	7M015 - Training of teachers in Natural science subjects
Code in the International Standard Classification of Education	0114
Code and classification of the educational program group	M014 - Training of teachers of biology (kazakh, russian, english language)
Code and name of the educational program	7M01505 - Biology
2.3.Distinctive features of the OP (double degree/joint, OVPO-partner, Double major, innovative)	-
2.4.Qualification characteristics of the graduate	
Degree awarded / qualification	Master of Pedagogical Sciences in the educational program 7M01505 Biology
Name of professional standard	-
Atlas of new professions	-
Regional standard	-
Name of the profession / list of positions of a specialist	Researcher, head of the research group of research institutes and universities of pedagogical profile; teacher of higher education institutions, secondary vocational educational institutions, head of departments and divisions of state educational services.
OQF qualification level (industry qualification framework)	7
Area of professional activity	Research organizations, secondary schools, lyceums, gymnasiums, colleges, national parks and nature reserves.
Object of professional activity	Research institutes, as well as institutes of pedagogical profile, higher educational institutions of state and non-state profile.
Types of professional activity	Educational (pedagogical), teacher of biology in higher educational institutions of state and non-state profile; research work and work in the field of education and science
2.5.Graduate Model	The uniqueness of the Educational program Distinctive features and opportunities, uniqueness of the educational program 7M01505– Biology are: - high lecturing skills and mentoring and the availability of basic education of teaching staff; - the use of innovative teaching methods by teachers in the classroom, interdisciplinary training, a local history approach in the study of; - formation of practical skills of undergraduates taking into account the real needs of employers.

Acquired competencies expressed in the achieved learning outcomes

As a result of studying in this direction, the undergraduate student acquires the following competencies:

- is able to demonstrate socio-cultural, economic, legal, environmental knowledge, communicative skills, apply information technologies taking into account modern trends in the development of society;
- owns modern technologies of teaching and criteria assessment taking into account individual, physiological and psychological characteristics of students and students;
- knows the basic provisions, concepts and laws in the field of natural sciences when explaining theoretical and practical tasks;
- ready to develop educational resources using modern media and information technologies in the educational process;
- a way to demonstrate the results of experimental research work in the form of a report, a scientific report, a message, scientific conclusions;
- owns educational material on all issues of the school and university curriculum of biological disciplines for everyday professional activities;
- I am ready to interpret information and sources from the point of view of their reliability and scientific character;
- knows the patterns of formation of natural complexes and is able to identify the features of interaction between nature and society at the present stage;
- is able to apply biological knowledge in pedagogical activity.

Personal qualities of the graduate

- ability to solve complex problems;
- critical thinking;
- creative thinking;
- ability to work in a team;
- the ability to recognize your own and other people's emotions, manage them;
- ability to form judgments and make decisions;
- conducting negotiations;
- switching from one task to another.

3. Modules and content of the educational program

Sociolinguistic and scientific-pedagogical activity

Brief description of the module content

Promotes the formation of sociolinguistic competence and the application of fundamental scientific, pedagogical, managerial, communication knowledge and skills in professional activities.

Module disciplines

Foreign language (professional)

History and philosophy of science

Higher Education Pedagogy

Psychology of management

Population Genetics

Pedagogical practice

Research in biology

Brief description of the module content

Collecting, describing, analyzing, summarizing and explaining the facts of research activities. Study of biological research methods of scientific writing methodology. Explanation of the essence of phenomena and processes in wildlife. Prediction of biological events, phenomena and processes. Establishing directions and forms of practical use of the acquired natural science knowledge.

Module disciplines

Theoretical Biology

Organization and plan research work

Research activity of students in biology

The research work of a student, including an internship and the implementation of a master`s thesis I

The research work of a student, including an internship and the implementation of a master`s thesis II

Research practice

The research work of a student, including an internship and the implementation of a master`s thesis III

Evolutionary biology

Brief description of the module content

The ability to collect and analyze scientific knowledge in the field of modern biology, to summarize and analyze the results obtained. Mastery of the basics of modern research methods in the field of animal and plant biology. Students demonstrate knowledge of the human body as a holistic system regulated by neuro-humoral mechanisms that provide interaction with the environment.

Module disciplines

Development biology

The modern problems of biology

Modern problems of human biology

Modern problems of human physiology

Ecological human physiology

New approaches to teaching

Actual problems of genetics

Human Genetics

Professional teacher landmark

Biology teaching technology in secondary vocational and university

Anthropology

Bionic

Biochemistry and physiology of plants

Population biology and evolution

Behavior physiology

Physiology of sensory systems

Physiology of the central nervous system and higher nervous activity

Evolution Biology

Evolution of life

Flora and fauna of Kazakhstan

Brief description of the module content

Obtaining theoretical knowledge of basic concepts in the study of biodiversity in Kazakhstan and practical skills in the field of conservation problems. Mastery of methods for the analysis and assessment of animal and plant biodiversity. Conservation of biological diversity, taking into account the main strategies for its restoration, ensuring safety and sustainable interaction of humans with the natural environment and society.

Module disciplines

Herpetofauna Of Kazakhstan

Invertebrates of Kazakhstan

Ichthyofauna Of Kazakhstan

Decorative plant growing

Forage plants

Herb plants in Kazakhstan

Final assessment

Brief description of the module content

Writing and defending a master`s thesis.

Module disciplines

Master`s dissertation

4. Summary table on the scope of the educational program

«7M01505 - Biology»

Name of discipline	Cycle/ Component	Term	Number of credits	Total hours	Lec	SPL	LC	IWST	IWS	Knowledge control form
Sociolinguistic and scientific-pedagogical activity										
Foreign language (professional)	BS/US	1	3	90		30		20	40	Examination
History and philosophy of science	BS/US	1	5	150	15	30		35	70	Examination
Higher Education Pedagogy	BS/US	1	3	90	15	15		20	40	Examination
Psychology of management	BS/US	1	3	90	15	15		20	40	Examination
Population Genetics	AS/CCh	2	5	150	15	30		35	70	Examination
Pedagogical practice	BS/US	3	6	180	180					Total mark on practice
Research in biology										
Theoretical Biology	BS/CCh	1	5	150	15	30		35	70	Examination
Organization and plan research work	AS/US	2	5	150	15	30		35	70	Examination
Research activity of students in biology	AS/US	2	5	150	15	30		35	70	Examination
The research work of a student, including an internship and the implementation of a master's thesis I	AS/US	2	11	330						Total mark on practice
The research work of a student, including an internship and the implementation of a master's thesis II	AS/US	3	4	120	120					Total mark on practice
Research practice	AS/US	4	13	390						Total mark on practice
The research work of a student, including an internship and the implementation of a master's thesis III	AS/US	4	9	270						Total mark on practice
Evolutionary biology										
Development biology	BS/CCh	1	5	150	15	30		35	70	Examination
The modern problems of biology	BS/CCh	1	5	150	15	30		35	70	Examination
Modern problems of human biology	BS/CCh	1	5	150	15	30		35	70	Examination
Modern problems of human physiology	BS/CCh	1	5	150	15	30		35	70	Examination
Ecological human physiology	BS/CCh	1	5	150	15	30		35	70	Examination
New approaches to teaching	AS/CCh	2	5	150	15	30		35	70	Examination
Actual problems of genetics	AS/CCh	2	5	150	15	30		35	70	Examination
Human Genetics	AS/CCh	2	5	150	15	30		35	70	Examination
Professional teacher landmark	AS/CCh	2	5	150	15	30		35	70	Examination
Biology teaching technology in secondary vocational and university	AS/CCh	2	5	150	15	30		35	70	Examination

Anthropology	AS/CCh	3	5	150	15	30		35	70	Examination
Bionic	AS/CCh	3	5	150	15	30		35	70	Examination
Biochemistry and physiology of plants	AS/CCh	3	5	150	15	30		35	70	Examination
Population biology and evolution	AS/CCh	3	5	150	15	30		35	70	Examination
Behavior physiology	AS/CCh	3	5	150	15	30		35	70	Examination
Physiology of sensory systems	AS/CCh	3	5	150	15	30		35	70	Examination
Physiology of the central nervous system and higher nervous activity	AS/CCh	3	5	150	15	30		35	70	Examination
Evolution Biology	AS/CCh	3	5	150	15	30		35	70	Examination
Evolution of life	AS/CCh	3	5	150	15	30		35	70	Examination
Flora and fauna of Kazakhstan										
Herpetofauna Of Kazakhstan	BS/CCh	1	5	150	15	30		35	70	Examination
Invertebrates of Kazakhstan	BS/CCh	1	5	150	15	30		35	70	Examination
Ichthyofauna Of Kazakhstan	BS/CCh	1	5	150	15	30		35	70	Examination
Decorative plant growing	AS/CCh	3	5	150	15	30		35	70	Examination
Forage plants	AS/CCh	3	5	150	15	30		35	70	Examination
Herb plants in Kazakhstan	AS/CCh	3	5	150	15	30		35	70	Examination
Final assessment										
Master`s dissertation		4	8	240						

Non -Profit Limited Company «Shakarim University of Semey»

EDUCATIONAL PROGRAM DEVELOPMENT PLAN
"7M01505 - Biology"
(code and name of EP) for 2024-2026

Semey 2024

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1 Passport of the Development Plan of EP "7M01505 – Biology"

1	The basis for the development	Development program of the Non -Profit Limited Company «Shakarim University of Semey» for 2023-2029
3	Terms of implementation	2024-2026
4	Expected results of implementation	In connection with the improvement of the quality of education, the preparation of a competent, adaptable to the changing conditions of the labor market, competitive, innovation-oriented specialist, approaches to the design of educational programs are changing in the Kazakh higher education system. New conditions change not only the role of education in society, but also its goals, objectives and content, which dictates the need for constant updating of programs, teaching materials.

2 Analytical justification of the EP

2.1 Information about the educational program:

The educational program has been developed in accordance with the National Qualifications Framework and Professional Standards, according to the Dublin Descriptors and the European Qualifications Framework. The typical period of mastering the master's degree program is 2 years.

EP 7M01505 - Biology was developed by the Academic Committee.

The main criterion for the completion of the educational process is the development of at least 120 credits, with the award of a Master of Pedagogical Sciences degree in the educational program 7M01505 - Biology.

2.2 Information about students in the EP

Academic year	2024-2025 Academic year	2025-2026 Academic year
The basis of training		
Grant	6	6
Contract	3	4
Total	9	10

2.3 Internal and external conditions for the development of EP

The OP 7M01505 - Biology includes components for preparation for professional activity. This is reflected in the subject matter and the list of tasks of laboratory and practical classes, in the list of types and forms of performing tasks of independent work of the student. Various forms of classes (traditional and frontal and demonstration experiments, case methods and project methods of teaching, problem-based and step-by-step, modular methods of teaching), the implementation of master's theses, the passage of professional practices also form professional qualities. The activation of cognitive and scientific and creative activities is facilitated by the participation of undergraduates in seminars, round tables and conferences.

The curricula of the courses, the content of lectures, practical and laboratory classes are adjusted taking into account the updating of the library fund, the requirements of internal and external regulatory documents and development concepts education. OP training sessions are held in 15 classrooms. The practical training of students of the OP is carried out through industrial practices and research work, which are the most important link in the system of professional training of future specialists. The practices are focused on deepening, systematization, generalization and concretization of theoretical knowledge acquired at the university, on improving professionally significant skills and abilities.

The University has concluded cooperation agreements on the implementation of programs of external academic mobility of students with 30 universities of foreign countries, as well as internal academic mobility of students with 19 universities of the Republic of Kazakhstan.

The general control over the process of employment of graduates of the university is conducted by the head of the Career and Employment Department. Every year, the university appoints those responsible for employment at the faculty level and at the level of graduate departments. Also, the university holds a university-wide job fair with the participation of employers in various fields of

activity. According to the OP "7M01505 - Biology", specialists are graduated annually, the percentage of employment is 100%.

2.4 Information about teaching staff implementing the educational program

№	Indicators	Ed.ed.	2024-2025 Academic year	2025-2026 Academic year
1	The share of teaching staff with a degree in OP	%	100	100
2	Including the share of teaching staff with a degree	%	100	100

2.5 Characteristics of the achievements of the OP

- ✓ the demand for specialists with higher pedagogical education in the region;
- ✓ the share of graduates who studied under the state order, employed in the specialty is 100%;
- ✓ sufficient level of settlement; the share of full-time teaching staff with academic degrees and titles is 100 %;
- ✓ high lecturing skills and mentoring and the availability of basic education of teaching staff;
- ✓ the use of innovative teaching methods by teachers in training sessions;
- ✓ the presence of continuity in two stages of bachelor's – master's degree;
- ✓ formation of practical skills of students taking into account the real needs of employers;
- ✓ availability of educational laboratories equipped with laboratory equipment and instruments;
- ✓ the information and library fund in the specialty is completed, all disciplines are provided with educational, methodical and scientific literature;
- ✓ active participation of teaching staff and students in cultural events.
- ✓

3 The main objectives of the EP development plan

The goals and objectives of the development of OP 7M01505 - Biology in accordance with the mission of the university are:

- ✓ training of biology masters with theoretical and practical knowledge in the field of modern areas of biological sciences and methods of teaching biology, able to apply the acquired competencies in teaching activities;
- ✓ provision of professional training and personal development of a teacher who is able to carry out the process of socio-pedagogical

- education and upbringing of a child at a high level;
- ✓ filling the labor market with competitive teachers focused on professional growth, civic values, social responsibility and competencies in accordance with the requirements of this field of training;
 - ✓ fulfillment of the social order of the society for the development and formation of specialists in demand in the system of biological education;
 - ✓ improving the quality of education in accordance with the requirements of national and international standards based on the formation of students' motivation for professional improvement and self-realization;
 - ✓ mastering key, subject and professional competencies for subsequent successful professional activity;
 - ✓ formation of readiness of undergraduates to organize and conduct research activities in the field of biological education.

4 EP risk analysis

No	Name of risks	Measures to eliminate
1	Outdated educational and laboratory facilities	Creation of modern educational, research and laboratory facilities on the basis of public and private
2	Weak practical skills of students in the use of modern methods	partnerships, purchase of modern laboratory equipment.
3	of scientific research.	To practice the introduction of modern techniques and methods of scientific research in biology.
4	Insufficient development of external and internal	Intensification of international scientific cooperation
5	academic mobility of undergraduates and teaching staff	To increase the stability of teaching staff through the admission of young
6	The risk of reducing the settlement of PPS in the PLO	specialists to the PhD program.

5. Action plan for the development of the EP

No	Criteria	Expected results	unit of measurement	2024-2025	2025-2026

1.1	Updating the educational program based on professional standards, taking into account the recommendations of employers	Conducting an examination of OP 7M01505 - Biology in order to improve the practice orientation and development of professional competencies of graduates	fact.	1	1
1.2	Monitoring and updating catalogs of elective disciplines in accordance with the development of key and professional competencies, the demands of the labor market	Improving the quality of the content of educational programs by including elective courses aimed at developing the key and professional competencies of graduates in accordance with the demands	fact.	1	1
1.3	Introduction of modern learning technologies into the educational process, contributing to the development of cognitive activity, communicative ability of students	Improving the quality of teaching academic disciplines, taking into account the novelty and variety of forms of work that contribute to the development of cognitive activity of students.	fact.	All disciplines by components by choice	All disciplines by components by choice
1.3.1	Introduction of mass open online courses (MOOCs) in the educational process according to the educational program 7M01505 - Biology	Improving the quality of teaching academic disciplines, taking into account the novelty and variety of forms of work that contribute to the development of cognitive activity	unit	1	1
1.4	Involvement of social partners and employers in the development, examination and implementation of educational programs	Improving the quality of implemented educational programs taking into account market demands and recommendations of employers	unit	2	2
1.5	Development and implementation of elective courses in English	Introduction of disciplines in English into the educational process	unit	-	-
1.6	Conducting seminars and round tables on the application of innovative technologies in the educational process	Introduction of innovative technologies in the educational process	unit	1	1

1.7	Publication of educational, methodical and scientific literature on the implemented OP	Improvement of educational and methodological support in the disciplines of the implemented educational programs	unit	2	2
1.8	Conclusion of contracts with foreign and domestic partner universities in order to develop academic exchange of students	Creation of a database of foreign and domestic partner universities for the development of academic exchange of students of all levels and teaching	unit	5	5
1.9	Inviting students from partner universities to study for a semester, short-term internships, internships, etc.	Development of international recognition of educational programs, implementation of academic mobility programs for students	human	-	1
1.10	Participation of teaching staff and students in international academic exchange programs	Development of international cooperation with foreign universities implementing educational programs in the field of	human	-	-
1.11	Development of outgoing academic mobility of teaching staff and students in the direction of OP 7M01505 - Biology	Improvement of the educational program based on the use of the experience of implementing such programs in leading foreign universities	human	1	2
2.1	Professional development and training of scientific and pedagogical personnel for the implementation	The share of teaching staff who have passed advanced training at the national and international level is at least 20%	human	2	3
2.2	Advanced training, retraining, internships of teaching staff at the international level	Completion of at least 2 teachers of the advanced training program, retraining, internships of teaching staff at the international level	human	1	2


2.3	Promotion of publications of the works of teaching staff in international publications indexed by the Web of Science and Scopus databases	Increase in the share of teaching staff who have published the results of scientific research in publications indexed by the Web of Science and Scopus databases – at least 30% of the total number of teaching staff	%	30	30
2.4	Involvement of practical specialists in teaching and scientific activities	Participation in the implementation of educational programs of practitioners (at least 20% of specialists)	%	20	20
3.1	Conclusion of agreements on international cooperation with foreign universities	Implementation of joint projects, preparation of scientific publications with foreign partners, creation of bases for scientific internships of students	%	30	32
3.2	Attracting foreign students to study under the educational program 7M01505 - Biology	Increasing the number of foreign students	human	1	1
3.3	Organization of joint scientific and practical events with international partners	Improving the efficiency of scientific and methodological activities of teaching staff, exchange of experience with foreign partners	unit	2	3
3.4	Invitation of foreign specialists to give lectures and consultations on master's projects and dissertations	Improvement of the content component of educational programs based on the introduction of the experience of foreign specialists in the implementation of educational programs	unit	-	1
3.5	Expansion of cooperation with leading foreign scientific and educational organizations in order to attract the most qualified foreign specialists to the implementation of educational programs	Formation of key and professional competencies in accordance with the practice of leading universities	human	-	-

4.1	Step-by-step equipping of classrooms with technical training tools (panels, interactive and multimedia whiteboards, multifunctional devices, webcam, etc.)	Equipping classrooms assigned to the department with technical training tools (panels, interactive and multimedia whiteboards, multifunctional devices, a webcam, etc.)	unit	7	9
4.2	Automation of the educational process (testing, session management, movement of the contingent of undergraduates, dean's office, department, teaching staff load, schedule, library, syllabuses)	Information management based on the automation of the educational process (testing, session management, movement of the contingent of undergraduates, dean's office, department, teaching staff load, schedule, library, syllabuses)	fact.	All EIsO	All EIsO
4.3	Replenishment of the full-text database of research results of teaching staff and students, teaching staff (articles, monographs, etc.)	Increase in the number of results of scientific works of scientists, research of teaching staff and students, teaching staff (articles, monographs, etc.)	unit	2	3


4.4	Expansion of the fund of scientific and educational literature, including on electronic media for implemented educational programs	Ensuring the implementation of educational programs based on modern educational and information resources, including on electronic media	%	100	100
4.5	Monitoring the content and improvement of the faculty's website	Formation of the faculty's website on various aspects of the implementation	%	100	100

Head of the department  Rakhimzhanova A.M., PhD

REVIEWED

at a meeting of the Quality Assurance Commission
 Chairman of the commission  Zheldybaeva B.S.
 Protocol No. 6 dated June 06, 2024

AGREED

Dean of the school  Mukaev Zh.T.
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