

**MINISTRY OF EDUCATION AND SCIENCE
KHARKIV NATIONAL MEDICAL UNIVERSITY**

EDUCATIONAL AND PROFESSIONAL PROGRAM

“Nursing”

first (bachelor) level of higher education

specialty 223 Nursing

fields of knowledge 22 Health

Qualification: Bachelor of Nursing

**APPROVED BY THE SCIENTIFIC
COUNCIL**

protocol No. 3 dated May 20, 2020

order No. 122 dated May 25, 2020

with changes

protocol No. 5 dated April 22, 2021

order No. 48 of May 25, 2021

FOREWORD

Approved by the Academic Council of the Kharkiv National Medical University protocol No. 5 dated April 22, 2022

Developed by the Kharkiv National Medical University project group consisting of:

1. Ospanova Tetyana Sungashevna - guarantor of the educational program, head of the project group, doctor of medical sciences, associate professor of the department of propaedeutics of internal medicine No. 2 and nursing;
2. Bezditko Tetyana Vasylivna - doctor of medicine, professor of the department of propaedeutics of internal medicine No. 2 and nursing;
3. Khimich Tetyana Yuriivna - member of the project group, candidate of medical sciences, associate professor of the department of propaedeutics of internal medicine No. 2 and nursing;
4. Pionova Olena Mykolaivna - member of the project group, candidate of medical sciences, associate professor of the department of propaedeutics of internal medicine No. 2 and nursing;
5. Usenko Svitlana Georgiivna - Candidate of Medical Sciences, Associate Professor of the Department of Public Health and Health Care Management.

1. Profile of the educational program in specialty 223 “Nursing”

1. General information	
Full name of the higher educational institution and structural unit	Kharkiv National Medical University
The degree of higher education and the title of the qualification in the original language	Degree of higher education: first level (bachelor degree) Qualification: education – bachelor's degree; professional - medical nurse
The official name of the educational program	Nursing
Type of diploma and scope of the educational program	Bachelor's degree, single, 240 ECTS based on complete general secondary education.
Accreditation availability	Ministry of Education and Science of Ukraine; National Agency for Quality Assurance of Higher Education - Ukraine - Accredited
Cycle/level	First (undergraduate) level/seventh qualification level of the National Qualifications Framework
Prerequisites	Full-time education (day and evening classes): a certificate of complete general secondary education (based on certificates of external independent testing/or entrance exams). Part-time education: only on the basis of the educational degree "junior bachelor" (educational and qualification level "junior specialist") in the field of "Health care" specialties, an institution of higher education has the right to recognize and transfer ECTS credits received as part of the previous educational program of junior training bachelor (junior specialist). The "Rules of admission to the Kharkiv National Medical University" approved by the Academic Council of KhNMU determine the admission conditions.
Language(s) of teaching	Ukrainian, English
The validity period of the educational program	from 2020 year to the next revision
Internet address of the permanent posting of the description of the educational program	https://knmu.edu.ua/en/program-catalog/nursing-bachelor-2021/
2. The object of the education program	
Preparation of a competitive, highly qualified, competent specialist capable of solving practical problems and tasks in the field of healthcare using the provisions, theories and methods of fundamental, medical and clinical sciences.	
3. Characteristics of the educational program	
Subject area (field of knowledge, specialty)	Field - 22 "Health care" Specialty - 223 "Nursing"

Forms of education	Full-time (day and evening classes) Part-time
Orientation of the educational program	Educational - professional
The main focus of the educational program and specialization	A general program in the field of health care, aimed at the knowledge of public health, diagnosis, treatment, and prevention of diseases, necessary for professional activities. Basic higher education. Keywords: medicine, nurse
Features of the program	The program provides theoretical, practical and research training; forms of education: full-time (day and evening classes) and part-time. The program also provides for curricular practical training and pre-diploma practice. The program provides for the possibility of international mobility, including the specialty practical training. This educational program has a conformity with the programs of other countries, the experimental nature of the educational program provided by the Law of Ukraine "On Higher Education" in the context of academic autonomy Unified State Qualification Exam "Krok B"
4. Graduates' suitability for employment and further education	
Employment suitability	The specialist is trained to work according to State Classification DK 009:2010 Section Q. Health care and social assistance. Chapter 86.1 Activities of hospitals Group 86.10 Activities of hospitals Class 86.21 General medical practice Class 86.9 Other health care activities After graduating from the bachelor's degree program in the specialty "Nursing", the specialist is able to perform the professional work specified in State Classification 003-2010: -1229.5 Head (manager) of the structural division of the medical institution -1229.5 Chief nurse -3231 Medical nurse A specialist can hold an initial position in accordance with the current list of specialties; Chapter 2 Professionals Specialist PC Professional job title 1229.5 - deputy chief physician for nursing; 1229.5 - chief nurse officer; 3231 - senior nurse; 3231 - nurse anesthetist; 3231 - emergency and intensive care nurse; 3231 - cosmetic procedure nurse; 3231 - medical statistician
Further education	Obtaining the second (master's) level of higher education
5. Teaching and evaluation	
Teaching and learning	Competent, student-centered, problem-oriented approaches and proactive self-learning; Lectures combined with multimedia, e-learning, group work, interpersonal learning and peer assessment, self-directed learning, inquiry-based learning, reflective learning, internships, individual

	training, practical training.
Assessment	<p>The methods and forms of control and assessment of students' success are carried out in accordance with the requirements of the program and the Instructions for evaluating the educational activity of students in the context of the implementation of the European Credit Transfer and Accumulation System for organizing the educational process, approved by the Ministry of Health of Ukraine (letter of the Ministry of Health of Ukraine No. 08.01-47/10395 dated 04.15.2014).</p> <p>Subject to verification:</p> <ol style="list-style-type: none"> 1. The level of theoretical knowledge. 2. Development of creative thinking. 3. Independent work skills. 4. Competencies (the ability to synthesize the acquired knowledge and apply them in solving practical exercises). 5. The level of formation of mandatory abilities and skills included in the section. 6. Fulfillment of individual student task. <p>Intermediate control in the form of final classes, credits, differential credits, exams in accordance with the curriculum.</p> <p>Practical training ends with a differential credits according to the curriculum.</p> <p>Certification is carried out in the form of a single state standardized test exam - a licensed integrated exam and a practically oriented exam (s).</p> <p>-the Unified State Qualification Exam is conducted in accordance with the Regulations on the System of the Unified State Qualification Exam, approved by the Order of the Ministry of Health of Ukraine dated August 14, 1998, No. 251 and is carried out by the Examination Commission of Universities and the Testing Center of the Ministry of Health of Ukraine.</p> <p>-The practical-oriented exam is conducted in the form of certification exams or a comprehensive certification exam. The practical-oriented exam assesses the acquisition of general and special competencies in conditions close to professional activity.</p>
6. Program competences	
Integral competence	A bachelor of nursing is able to solve complex specialized tasks and practical problems in the field of nursing or in the learning process, which involves the application of certain theories and methods of the relevant science and is characterized by the complexity and uncertainty of conditions.
General competencies (GC)	<p>GC 01. The ability to realize one's rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.</p> <p>GC 02. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of the subject area development, its place in the general system of knowledge about nature and society, in the development of society, technology and technology; the ability to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.</p> <p>GC 03. Ability to abstract thinking, analysis and synthesis.</p> <p>GC 04. Ability to apply knowledge in practical situations.</p>

	<p>GC 05. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>GC 06. Ability to communicate in the national language both orally and in writing.</p> <p>GC 07. Ability to communicate in a foreign language.</p> <p>GC 08. Skills in using information and communication technologies.</p> <p>GC 09. Determination and persistence in relation to assigned tasks and assumed responsibilities.</p> <p>GC 10. Ability to make informed decisions.</p> <p>GC 11. Ability to work in a team.</p> <p>GC 12. Interpersonal skills.</p> <p>GC 13. Ability to act on ethical grounds.</p>
Professional competences (PC)	<p>PC 01. The ability to apply professional and legal standards in daily professional practice.</p> <p>PC 02. The ability to recognize and interpret signs of health and its changes, illness or disability (assessment/diagnosis), limitations of the possibility of full-fledged life activities, and to determine the problems of patients with various diseases and conditions.</p> <p>PC 03. The ability to meet the needs of the patient/client throughout the lifetime (including the dying process) by planning, assisting and executing nursing interventions, evaluating and correcting individual care plans created in collaboration with the patient/client, caregivers, family members and other medical and social workers.</p> <p>PC 04. Application of professional skills (abilities), medical means, interventions and actions to ensure the patient/client's with dignity, privacy (intimacy), confidentiality, protection of his rights, physical, psychological and spiritual needs on the basis of transcultural nursing, tolerant and non-judgmental behavior.</p> <p>PC 05. The ability to effectively apply a combination of nursing skills (abilities), medical supplies, interventions and actions to ensure care based on a holistic approach, taking into account the satisfaction of the patient's needs for comfort, nutrition, personal hygiene and the ability of the individuals to meet their daily needs.</p> <p>PC 06. The ability to effectively apply a set of professional skills (abilities), medical supplies, interventions and actions in assessing the functional status of patients/clients, preparing them for diagnostic examinations and taking biological material for laboratory examinations.</p> <p>PC 07. Preservation of specialist's own health in the implementation of care, performing manipulations and procedures, when moving and transporting the patient/client.</p> <p>PC 08. Preventive activities of a nurse aimed at preserving and strengthening health, preventing diseases, informing, and educating the patient and his family members.</p> <p>PC 09. The ability to organize, implement and control the nursing process in palliative and hospice care.</p> <p>PC 10. The ability to organize the provision of medical care according to the principle of the family medicine.</p> <p>PC 11. The ability to execute the medical and social rehabilitation in order to restore the population health.</p> <p>PC 12. The ability to orientate in determining the group belonging of drugs, the peculiarities of their pharmacokinetics and pharmacodynamics.</p> <p>PC 13. The ability to identify the relationship between clinical</p>

	<p>manifestations of diseases and the results of additional methods of examinations.</p> <p>PC 14. The ability to organize and provide emergency care in various acute conditions.</p> <p>PC 15. The ability to organize and provide emergency assistance in peacetime and wartime emergencies.</p> <p>PC 16. The ability to organize and manage the relevant structural unit (leadership and management).</p>
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7. Program learning outcomes

PLO 1. Conduct a nursing subjective and objective examination of various organs and systems of the patient and evaluate the obtained data.

In the conditions of health care facilities and at home, by communicating with patients of different ages, their relatives or close friends, a sick child and his parents, be able to collect complaints, disease history, life history, allergic history, epidemiological history, evaluate anamnestic data.

PLO 2. Conduct nursing diagnosis: identify and assess patient problems.

In the conditions of health care facilities, at home, predictable circumstances, to be able to identify the real problems of the patient, assess their priority and establish a nursing diagnosis.

PLO 3. Plan nursing interventions.

In the conditions of health care facilities, at home and under unforeseen circumstances, be able to make a plan of nursing interventions to solve real and related problems of patients of various ages.

PLO 4. Monitor the work of junior medical staff and the state of inventory.

In the conditions of health care facilities, in accordance with job duties, in order to comply with the sanitary and anti-epidemic regime, be able to:

- Conduct training of junior medical personnel on the performance of functional duties and occupational health and safety; monitor compliance with safety rules by junior medical personnel.
- Monitor the work of junior medical staff; control the implementation of the rules of the internal procedure by staff and patients; monitor compliance with measures of sanitary and hygienic regime in wards and medical offices.

PLO 5. Execute nursing administration.

In the conditions of health care facilities, in order to implement organizational and management competencies, to be able to:

- make management decisions, ensure their implementation based on the application of nursing management models;
- ensure the implementation of orders and resolutions on health care issues;
- master the functional duties of the head of nursing services;
- know the procedure for licensing and accreditation of medical and preventive facilities, laboratories of various profiles, etc.

PLO 6. To ensure a healthy microclimate in the team, using the principles of nursing ethics and deontology, the rules of interpersonal communication in order to create a favorable psychological microclimate, to be able to:

- communicate with the patient and members of his family or close friends, medical staff;
- to solve ethical and deontological problems in the process of working with the patient and his family members; consider and analyze professional mistakes in the team; conduct training for junior and technical personnel.

PLO 7. To participate in the monitoring of healthy and sick population, rehabilitation and dispensary supervision.

In the conditions of health care facilities, at home and in the community, using the current orders of the Ministry of Health of Ukraine, in order to form, preserve and improve the health of the adult and child population, to be able to:

- keep records of dispensary population groups;

- to calculate and analyze statistical data of dispensation efficiency;
- conduct explanatory work among patients of different dispensary groups;
- keep records of health groups;
- calculate and evaluate individual indicators and indicators of the complex effect of the microclimate on the human body;
- to determine the stages of medical and social rehabilitation of the patient, tasks for each stage;
- make a complex of rehabilitation measures depending on the profile, course, period of the disease or injury;
- conduct a census of the child population.

PLO 8. To perform medical manipulations in order to ensure a sanitary and anti-epidemic regime.

PLO 9. Correctly perform medical manipulations in order to ensure the personal hygiene of the patient.

PLO 10. To perform the simplest methods of physiotherapy.

PLO 11. To coordinate activities using a combination of multiple skills to ensure patient nutrition.

PLO 12. Correctly perform medical manipulations in order to take measures to stabilize the functional state of the body.

PLO 13. To prescribe, store and apply pharmacological agents.

PLO 14. Be able to prepare the patient, collect and send biological material for laboratory and instrumental examinations.

PLO 15. To provide an emergency medical care based on the diagnosis of an emergency.

PLO 16. The ability to be accurate in performing interdependent nursing functions.

PLO 17. To plan and execute a preventive and an anti-epidemic measures for infectious diseases.

PLO 18. To organize and conduct training of patients and their family members on medical issues.

PLO 19. To conduct medical and hygienic propaganda.

PLO 20. Properly maintain appropriate medical records.

8. Resource support for program implementation

Staffing	<p>The higher medical educational institution, which conducts the training of undergraduate medical nurses, is responsible for compliance with state requirements regarding the quality of educational and professional training of graduates in accordance with the Law of Ukraine "On Higher Education", other normative legal acts of Ukraine, and provides the appropriate teaching staff.</p> <p>Project group: 2 doctors of medical science, professors and 3 candidates of science, associate professors.</p> <p>Developer of the educational program (project team leader): Doctor of Medical Sciences, professor, head of the department of propaedeutics of internal medicine No. 2 and nursing T.S. Ospanova has 38 years of scientific and pedagogical work experience, is a recognized professional with experience in research activities in the field of health care.</p> <p>All teachers of this specialty must have an appropriate professional higher education (doctors of sciences, candidates of sciences, professors, associate professors, teaching methods, teachers of the highest category).</p>
Material and technical provision	<p>Provision of educational facilities, computer workplaces, and multimedia equipment meets the need. The entire necessary social and household infrastructure is available; the number of places in the dormitories meets the requirements. The presence of the educational and scientific medical complex "University Clinic", Research</p>

	<p>Institute of Occupational Health and Occupational Diseases, the University Dental Center, Centre of Preclinical and Clinical Researches, Center for Gender Education, Center for Palliative Medicine, 4 problem laboratories, an anatomical museum, a vivarium, a testing center, classrooms for simulation training (phantoms), Central Research Laboratory of the University, Education and Research Institute for Training of International Citizens, Educational and Scientific Institute of Education Quality, 6 educational scientific and industrial associations. KhNMU has 32 local computer networks and 55 wireless Internet access points. Use of the Internet is unlimited.</p>
<p>Informational and educational and methodological support</p>	<p>The presence of the official website of the KhNMU knmu.edu.ua/. A scientific library with a complete set of educational literature from all disciplines studied (in the national, Russian, English languages). The website of the Scientific Library of the KhNMU works (http://libr.knmu.edu.ua/), which provides convenient remote access to various information resources, including electronic catalog - more than 210 thousand bibliographic descriptions, including links to full texts - more than 2.2 thousand (textbooks, educational and methodological literature, materials of congresses and conferences, periodicals, etc.). Problem-oriented databases have been created and are constantly updated according to the main directions of scientific research of the university - "Health of the healthy", "Mini-invasive interventions", "Cardiovascular diseases", "Viral and bacterial infections", as well as from current topics - "Evidence-based medicine", "Military medicine" and "Diseases of the "big" (full text). The KhNMU repository is the first among medical universities of Ukraine with free access to educational, methodological and scientific materials; it has more than 12,000 full-text documents, including 1.3 thousand - educational and methodical and lecture materials. The inclusion in the Repository of not only purely scientific, but also educational and methodological, lecture materials provides students with the opportunity for self-training in the 24/7 mode; databases, primarily of biomedical profile, among which Medline, Cochrane Library, Academic Search Premier, Health Source, PubMed, DOAJ, Open J-Gate, BioOne etc. According to the program of the project "Electronic information for libraries" (eIFL Direct), we are given free trial access to scientometric databases Web of Science from Thomson Reuters publishing house, East View Information Services resources, JSTOR Consortium of various foreign publishing houses, such as Royal Society Publishing, Nature, Academic Press, Springer International Publishing AG, Institute of Physics Publishing (IOP Publishing), to electronic versions of The New England Journal of Medicine, Pediatric Neurology Briefs, to Elsevier journals and books, Ovid resources - "Primal Interactive Human: the 3D Real-time Body" (Multimedia interactive 3D human anatomy), Reactions Pharmacovigilance Insight, APA PsycINFO™, PsycTESTS, etc.; web index of medical journals with interactive links to electronic archives. All reading rooms and electronic information rooms work in the Wi-Fi zone and provide free access to the Internet.</p>
<p>9. Academic mobility</p>	
<p>National academic mobility</p>	<p>Agreements have been concluded on academic mobility, which provide for the included study of students within the framework of</p>

	the credit-transfer system with the possibility of re-enrollment of credits (the amount of one credit is 30 hours)
International academic mobility	Agreements on international academic mobility have been concluded, which include student training, interchangeability of credits with the Academy named after Jan Dlugosz in Częstochowa, Poland; work is being conducted in the form of online negotiations and contracts are being prepared with the University of Central Lancashire (Great Britain), Madonna University, Jacksonville University, Arkansas State University, Hartwick College (USA)
Training of foreign higher education students	Education of foreign students of higher education is conducted under general conditions or according to an individual schedule.

2. List of components of the educational and professional program and their logical sequence

2.1 The list of components MC

Code n/a	Components of the educational program (educational disciplines, practices)	Number of credits	The form of final control
1	2	3	4
Mandatory components MC			
General training			
MC 1	History and culture of Ukraine	3	Credit
MC 2	Ukrainian language, ukrainian language by profession	3	Differentiated credit
MC 3	English for Specific Purposes	5	Іспит
MC 4	Foundations of philosophical knowledge	3	Credit
MC 5	Basics of Latin language with medical terminology	3	Differentiated credit
MC 6	Human anatomy	5,5	Exam
MC 7	Physiology	5,5	Exam
MC 8	Medical and bioorganic chemistry	4,5	Differentiated credit
MC 9	Basics of medical physics and informatics	3	Credit
MC 10	Pharmacology and medical prescription	4,5	Exam
MC 11	Pathomorphology and pathophysiology	5	Differentiated credit
MC 12	Basics of medical biology and microbiology	5	Differentiated credit
MC 13	Biological chemistry	3	Differentiated credit
MC 14	Life safety and basics of bioethics	3	Credit
MC 38	Physical Training		Credit

Professional and practical training disciplines			
MC 15	Fundamentals of nursing.	12	Exam
MC 16	Nursing in internal medicine	14	Exam
MC 17	Nursing in pediatrics	13	Exam
MC 18	Nursing in surgery and oncology	13	Exam
MC 19	Nursing in infectology	3	Differentiated credit
MC 20	Obstetrics and gynecology nursing. Reproductive health and family planning	5	Differentiated credit
MC 21	Palliative and hospice medicine. Medical ethics and nursing in gerontology and geriatrics.	4	Differentiated credit
MC 22	Nursing in family medicine	4	Differentiated credit
MC 23	Anesthesiology and intensive care	3	Differentiated credit
MC 24	Medical and social rehabilitation	3	Differentiated credit
MC 25	Clinical pharmacology with toxicology	4	Exam
MC 26	Examination and assessment of human health	5,5	Exam
MC 27	Health care economics. Medical services marketing	3	Credit
MC 28	Medical and pharmaceutical commodity science	3	Credit
MC 29	Management and leadership in nursing	3	Credit
MC 30	Clinical nursing in internal medicine	3	Exam
MC 31	Clinical nursing in surgery	3	Exam
MC 32	Clinical nursing in pediatrics	3	Exam
MC 33	Military - medical training and medicine for emergency situations	3	Credit
MC 34	Occupational health and safety in the industry	3	Credit
MC 35	Practical training on the basics of nursing	4,5	Differentiated credit
MC 36	Practical training in the nursing process	4,5	Differentiated credit
MC 37	Pre-diploma practical training	6,5	Differentiated credit
The total volume of mandatory components:		180/5400 hours	
Optional components OC			
OC 1	Human growth and development	3	Credit
OC 2	Actual issues of medical genetics	3	Credit
OC 3	Fundamentals of economic theory	3	Credit
OC 4	Nursing ethics and deontology	3	Credit
OC 5	Nursing in ophthalmology	3	Credit
OC 6	Nursing in neurology	3	Credit
OC 7	Nursing in otolaryngology	3	Credit
OC 8	Nursing in dermatology and venereology	3	Credit
OC 9	Nursing in psychiatry and narcology	3	Credit
OC 10	English language	3	Credit
OC 11	Medical professional speech	3	Credit
OC 12	Mental health	3	Credit
OC 13	Epidemiology	3	Credit
OC 14	Methodology of scientific research work	3	Credit
OC 15	Nursing Theories and Process	3	Credit
OC 16	Fundamentals of pedagogy	3	Credit

OC 17	Nursing in dentistry	3	Credit
OC 18	Nursing in occupational pathology	3	Credit
OC 19	Social medicine	3	Credit
OC 20	Medical psychology	3	Credit
OC 21	Emergencies	3	Credit
OC 22	Nursing in Nephrology and Urology	3	Credit
OC 23	Laboratory basics. Interpretation of examination results	3	Credit
OC 24	Fundamentals of physiotherapy and physical therapy	3	Credit
OC 25	Fundamentals of instrumental diagnostics	3	Credit
OC 26	Nursing in hematology and basics of transfusion	3	Credit
OC 27	Sociology	3	Credit
OC 28	Basics of psychology and interpersonal communication	3	Credit
OC 29	Fundamentals of jurisprudence	3	Credit
OC 30	History of medicine and nursing	3	Credit
OC 31	Public health and public nursing	3	Credit
OC 32	Basics of ecology and preventive medicine	3	Credit
OC 33	Post-traumatic stress disorder	3	Credit
OC 34	Foreign Language	3	Credit
OC 35	Medical equipment in diagnostics and treatment	3	Credit
OC 36	Modern computer training of a nurse	3	Credit
OC 37	Telemedicine technology	3	Credit
OC 38	Medical expert systems	3	Credit
OC 39	Vaccine prophylaxis in the practice of a nurse	3	Credit
OC 40	The nurse's role in the prevention of infections associated with the provision of medical	3	Credit
OC 41	Anti-epidemic measures in centers of infectious diseases	3	Credit
OC 42	Disinfection and sterilization of medical instruments	3	Credit
OC 43	Management of medical waste as a component of infection control in healthcare facilities	3	Credit
OC 44	Biological weapons, bioterrorism. Means of protection and prevention	3	Credit
OC 45	Basics of radiology in nursing	3	Credit
OC 46	Basics of healthy nutrition and dietetics	3	Credit
OC 47	Care of patients with disabilities	3	Credit
OC 48	Nursing in cardiology	3	Credit
OC 49	Person and disease. Cultivating respect for a healthy lifestyle	3	Credit
The total amount of optional components		60/1800 hrs	
GENERAL SCOPE OF THE EDUCATIONAL PROGRAM		240/7200 hrs	

2.2. Structural and logical scheme of the educational program

Discipline	Years of study Semester			
	1 year	2 year	3 year	4 year
History and culture of Ukraine	3			
Ukrainian language, Ukrainian language by profession.	3			
English for Specific Purpose.	5			
The foundations of philosophical knowledge.	3			
The basics of Latin language with medical terminology	3			
Human anatomy	5,5			

Physiology	5,5			
Medical and bioorganic chemistry	4,5			
Fundamentals of biological physics and informatics	3			
Pharmacology and medical prescription		4,5		
Pathomorphology and pathophysiology		5		
Basics of medical biology and microbiology	3,5	1,5		
Biological chemistry				3
Life safety and basics of bioethics	3			
Physical Education	*			
Fundamentals of nursing.	3	9		
Nursing in internal medicine		6	8	
Nursing in pediatrics		5	8	
Nursing in surgery and oncology		5,5	7,5	
Nursing in infectology			3	
Obstetrics and gynecology nursing. Reproductive health and family planning			5	
Palliative and hospice medicine. Medical ethics and nursing in gerontology and geriatrics.		4		
Nursing in family medicine				4
Anesthesiology and intensive care			3	
Medical and social rehabilitation			3	
Clinical pharmacology with toxicology				4
Examination and assessment of human health				5,5
Health care economics. Medical services marketing				3
Medical and pharmaceutical commodity science				3
Management and leadership in nursing				3
Clinical nursing in internal medicine				4
Clinical nursing in surgery				3
Clinical nursing in pediatrics				3
Military - medical training and medicine for emergency situations			3	
Occupational health and safety in the industry				3
Practical training on the basics of nursing		4,5		
Practical training in the nursing process			4,5	
Pre-diploma practical training				6,5
Total credits MC	180	45	45	45
Optimal discipline				
Human growth and development		3		
Actual issues of medical genetics		3		
Fundamentals of economic theory	3			
Nursing ethics and deontology		3		
Nursing in ophthalmology			3	
Nursing in neurology			3	
Nursing in otolaryngology			3	
Nursing in dermatology and venereology			3	

Nursing in psychiatry and narcology			3	
English language				3
Medical professional speech	3			
Mental health		3		
Epidemiology		3		
Methodology of scientific research work				3
Nursing Theories and Process				3
Fundamentals of pedagogy				3
Nursing in dentistry			3	
Nursing in occupational pathology			3	
Social medicine	3			
Medical psychology				3
Emergencies			3	
Nursing in Nephrology and Urology			3	
Laboratory basics. Interpretation of examination results				3
Fundamentals of physiotherapy and physical therapy		3		
Fundamentals of instrumental diagnostics				3
Nursing in hematology and basics of transfusion			3	
Sociology	3			
Basics of psychology and interpersonal communication		3		
Fundamentals of jurisprudence	3			
History of medicine and nursing	3			
Public health and public nursing				3
Basics of ecology and preventive medicine	3			
Post-traumatic stress disorder		3		
Foreign Language	3			
Medical equipment in diagnostics and treatment	3			
Modern computer training of a nurse	3			
Telemedicine technology		3		
Medical expert systems			3	
Vaccine prophylaxis in the practice of a nurse		3		
The nurse's role in the prevention of infections associated with the provision of medical		3		
Anti-epidemic measures in centers of infectious diseases				
Disinfection and sterilization of medical instruments	3			
Management of medical waste as a component of infection control in healthcare facilities		3		
Biological weapons, bioterrorism. Means of protection and prevention				3
Basics of radiology in nursing				3
Basics of healthy nutrition and dietetics				3
Care of patients with disabilities		3		
Nursing in cardiology				3

Person and disease. Cultivating respect for a healthy lifestyle		3		
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3. Form of attestation of applicants of higher education

The attestation of higher education bachelor degree is carried out in the form of a single state qualification exam, which consists of the following components:

1. The Unified State Qualification Exam. Its results are defined as "passed" or "failed".
2. The practical-oriented exam, namely "Clinical Nursing" (in internal medicine, in surgery, in pediatrics). It provides for the assessment of mandatory learning outcomes related to the specialist's ability to solve complex specialized tasks and practical problems in the field of nursing, defined by this standard and the educational program.

The certification is completed by issuing a document of the established form on the awarding of an educational degree with the qualification of a Bachelor of Nursing.

Certification is carried out openly and publicly.

5-a. Matrix of correspondence of program competencies to the components of the educational program (optimal components)

	GC1	GC2	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10	PC11	PC12	PC13	PC14	PC15	PC16	
OC1			*	*	*										*		*	*	*					*						
OC2			*	*	*					*					*				*	*						*				
OC3	*	*	*	*	*	*		*	*	*	*	*	*		*	*	*	*	*	*		*	*							*
OC4	*	*	*	*	*						*		*	*	*	*	*	*	*	*			*	*						*
OC5			*	*	*					*				*	*	*	*	*	*	*						*	*			
OC6			*	*	*					*				*	*	*	*	*	*	*						*	*			
OC7			*	*	*					*				*	*	*	*	*	*	*						*	*			
OC8			*	*	*					*				*	*	*	*	*	*	*						*	*			
OC9			*	*	*					*				*	*	*	*	*	*	*						*	*			
OC10			*	*	*		*							*	*	*	*	*	*	*							*	*		*
OC11			*	*	*									*	*	*	*	*	*	*										*
OC12	*	*	*	*	*					*		*	*	*	*	*	*	*	*	*						*	*			*
OC13			*	*	*									*	*	*	*	*	*	*		*				*	*			*
OC14	*	*	*	*	*			*						*	*	*	*	*	*	*			*	*						*
OC15	*	*	*	*	*						*	*	*	*	*	*	*	*	*	*			*	*						*
OC16			*	*	*			*			*	*	*	*	*	*	*	*	*	*										*
OC17			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC18			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC19	*		*	*	*				*					*	*	*	*	*	*	*						*	*			*
OC20			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC21			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC22			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC23			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC24			*	*	*					*				*	*	*	*	*	*	*		*			*	*				*
OC25			*	*	*			*		*				*	*	*	*	*	*	*					*	*				*
OC26			*	*	*					*				*	*	*	*	*	*	*						*	*			*
OC27	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*						*	*			*
OC28	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*						*	*			*
OC29	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*					*	*				*
OC30	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*					*	*				*
OC31	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*				*	*					*
OC32			*	*	*					*				*	*	*	*	*	*	*		*			*	*				*
OC33	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*					*	*				*
OC34			*	*	*		*			*				*	*	*	*	*	*	*					*	*				*
OC35			*	*	*	*		*		*				*	*	*	*	*	*	*					*	*				*
OC36			*	*	*	*		*		*				*	*	*	*	*	*	*					*	*				*
OC37			*	*	*	*		*		*				*	*	*	*	*	*	*					*	*				*
OC38			*	*	*	*		*		*				*	*	*	*	*	*	*					*	*				*
OC39	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC40	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC41	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC42	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC43	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC44	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC45			*	*	*					*				*	*	*	*	*	*	*					*	*				*
OC46		*		*	*					*				*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC47	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC48	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*
OC49	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*

5-6. The matrix of compliance of program learning outcomes with the components of the educational program

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20
MC1	*	*	*	*	*	*	*	*			*		*	*	*	*	*	*	*	*
MC2				*	*	*	*	*								*	*	*	*	*
MC3													*							*
MC4							*			*									*	
MC5													*							*
MC6	*							*				*								
MC7	*							*				*								
MC8													*	*						
MC9		*		*										*						*
MC10											*		*							*
MC11	*														*					
MC12								*	*					*			*			
MC13												*		*						
MC14				*	*									*			*		*	
MC15	*	*	*	*	*	*	*	*				*		*		*				*
MC16	*	*	*	*	*	*	*	*				*		*		*				*
MC17	*	*	*	*	*	*	*	*				*		*		*				*
MC18	*	*	*	*	*	*	*	*				*		*		*				*
MC19	*	*	*	*	*	*	*	*				*		*		*				*
MC20	*	*	*	*	*	*	*	*				*		*		*				*
MC21	*	*	*	*	*	*	*	*				*		*		*				*
MC22	*	*	*	*	*	*	*	*				*		*		*		*		*
MC23	*	*	*	*	*	*	*	*				*		*		*				*
MC24										*	*	*								
MC25													*							
MC26	*	*				*	*													
MC27				*	*	*	*											*	*	*
MC28				*	*	*	*						*							
MC29			*	*	*	*	*													*
MC30	*	*	*	*	*	*	*	*				*		*		*				*
MC31	*	*	*	*	*	*	*	*				*		*		*				*
MC32	*	*	*	*	*	*	*	*				*		*		*				*
MC33	*	*	*	*	*	*	*	*				*		*		*				*
MC34				*	*	*	*													*
MC35	*	*	*	*	*	*	*	*				*		*		*				*
MC36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MC37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
OC1	*										*									
OC2	*																			
OC3				*	*						*					*				*
OC4	*	*	*	*	*	*	*	*				*		*		*				*
OC5	*	*	*	*	*	*	*	*				*		*		*				*
OC6	*	*	*	*	*	*	*	*				*		*		*				*
OC7	*	*	*	*	*	*	*	*				*		*		*				*
OC8	*	*	*	*	*	*	*	*				*		*		*				*
OC9	*	*	*	*	*	*	*	*				*		*		*				*
OC10																				*
OC11																				*
OC12							*					*		*						
OC13							*	*	*									*	*	
OC14			*	*	*															
OC15		*	*	*	*	*	*													
OC16				*	*	*	*													
OC17	*	*	*	*	*	*	*	*				*		*		*				*
OC18	*	*	*	*	*	*	*	*				*		*		*				*
OC19						*	*	*												
OC20						*	*	*										*		

OC21															*					
OC22	*	*	*	*	*	*	*	*				*		*		*				*
OC23	*	*												*						
OC24							*		*	*	*	*								
OC25		*	*											*						
OC26	*	*	*	*	*	*	*	*				*		*		*				*
OC27				*	*	*	*													
OC28			*	*															*	
OC29																				*
OC30	*	*	*	*	*	*	*													
OC31	*	*	*	*	*				*									*	*	
OC32	*	*						*	*		*	*				*	*			
OC33							*				*		*							
OC34												*								*
OC35		*		*										*						*
OC36		*		*										*						*
OC37		*		*										*						*
OC38		*		*										*						*
OC39	*	*	*	*	*	*	*	*			*	*		*	*	*	*			*
OC40	*	*	*	*	*	*	*	*			*		*		*	*	*		*	*
OC41	*	*	*	*	*	*	*	*			*		*		*	*	*		*	*
OC42			*	*	*			*			*		*		*	*				*
OC43			*	*	*			*			*		*		*	*				*
OC44	*	*	*	*	*	*	*	*			*		*	*	*	*				*
OC45		*				*	*			*			*					*	*	
OC46						*	*			*								*	*	
OC47	*	*	*	*	*	*	*	*			*		*		*	*				*
OC48	*	*	*	*	*	*	*	*			*		*		*	*				*
OC49		*				*	*			*			*					*	*	

The educational and professional program "Nursing" of the first (bachelor's) level of higher education in specialty 223 "Nursing" field of knowledge 22 "Health care" qualification: Bachelor of Nursing was created at Kharkiv National Medical University by the project group.

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