

**CRITERIA FOR GRADING KNOWLEDGE AND SKILLS
OF HIGHER EDUCATION APPLICANTS
IN THE EDUCATIONAL COMPONENT "BIOLOGICAL CHEMISTRY"
for the EP "Pharmacy" full-time form**

The educational component "Biological Chemistry" is studied for 2 semesters and consists of 2 modules. Each module is divided into 2 content modules. The current control is carried out during the semester during practical classes and is evaluated by the sum of the points scored. Current control is carried out in the form of oral questioning, interviews, written express control, speeches of higher education applicants during the discussion of issues, in the form of computer testing and solving situational tasks. The independent work of higher education students, which is provided for by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the relevant lesson. Mastery of topics that are submitted only for independent work is checked during the control of the content module. Current control is mandatory. The knowledge of higher education students must be assessed at each lesson (on each topic).

The scheme of accrual and distribution of points of current control of higher education students studying on a full-time

Module 1

Current assessment and self-work									Semester credit for module 1	Total
Content module 1				Content module 2						
T1	T2	T3	K3M	T4	T5	T6	T7	KCM	–	100
8	12	10	10	10	15	10	15	10		

Module 2

Current assessment and self-work							Semester credit for module 2	Сума
Content module 3			Content module 4					
T8	T9	K3M	T10	T11	T12	KCM	–	100
14	6	20	14	14	12	20		

The final control includes semester control.

A higher education applicant is considered admitted to semester control if he or she has completed all the classroom training sessions provided for in the work program for the educational component, has completed all the types of work provided for in the work program for the educational component.

Semester control is carried out in the form of a semester test on the educational component in the amount of educational material determined by the work program and within the time limits established by the curriculum. The results of the semester control in the form of a semester test are given on a 100-point scale and on the ECTS scale.

A higher education student receives a semester credit at the last lesson of the educational component based on the results of the *current assessment and control of content modules*. This type of final control does not involve any additional work, surveys or testing at the last class. Credit is given to higher education students who have scored the required minimum number of points during the current control (60 points and above), have no unexcused absences from practical classes and have fulfilled all the requirements provided for in the work program of the educational component.

The results are converted from one scale to another according to the table.

Rating scale

The sum of points on a 100-point scale	ECTS scale	Grade on an undifferentiated scale
90-100	A	credit
82-89	B	
74-81	C	
64-73	D	
60-63	E	
35-59	FX	not credit
1-34	F	

Higher education applicants who have received two semester credits are admitted to the *semester exam*.

CONTROL OF KNOWLEDGE AT EACH LESSON

Current control consists in assessing the level of preparedness of higher education students to perform specific work, the completeness and quality of mastering by higher education students of educational material on topics, content modules of the educational component and the performance of individual tasks in accordance with the work program of the educational component and is carried out by teachers during the semester. The forms and content of the current control, the distribution of points between individual control measures and tasks within one lesson (oral examination, control tests, written assignments) are determined by the department and communicated to higher education students at the beginning of the semester in which it is performed. The number of points received for each type of academic work in various forms of current control is posted to higher education students in the academic group journal.

Module 1

Content module 1: Structure and function of biomolecules.

Lesson 1.

Topic: Amino acid composition of proteins and peptides. Structural organization, functions and physical and chemical properties of proteins.

In the first lesson, higher education students do not receive points.

Lesson 2.

Topic: Amino acid composition of proteins and peptides. Structural organization, functions and physical and chemical properties of proteins.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 3.

Topic: Amino acid composition of proteins and peptides. Structural organization, functions and physicochemical properties of proteins.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 4.

Topic: Structural organization and functions of complex proteins and nucleic acids.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 5.

Topic: Structural organization and functions of complex proteins and nucleic acids.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction,

	but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 6.

Topic: Structural organization and functions of complex proteins and nucleic acids.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 7.

Topic: Enzymes. Structural and functional organization and mechanisms of action of enzymes. Specificity of action and regulation of enzyme activity.

Rating grade, points	Criteria for grading
4	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 8.

Topic: Enzymes. Structural and functional organization and mechanisms of action of enzymes. Specificity of action and regulation of enzyme activity.

Rating grade, points	Criteria for grading
3	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 9.

Topic: Enzymes. Structural and functional organization and mechanisms of action of enzymes. Specificity of action and regulation of enzyme activity.

Rating grade, points	Criteria for grading
3	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
2	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
1	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Content module 2 Metabolism of carbohydrates, lipids, amino acids and its regulation

Lesson 10.

Topic: Introduction to metabolism and energy. Ways of formation of ATP. Regulation of energy processes in the cell. Microsomal oxidation. Free radical oxidation. Antioxidants.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 11.

Topic: Introduction to metabolism and energy. Ways of formation of ATP. Regulation of energy processes in the cell. Microsomal oxidation. Free radical oxidation. Antioxidants.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 12.

Topic: Carbohydrate metabolism, its regulation and pathology.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 13.

Topic: Carbohydrate metabolism, its regulation and pathology.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction,

	but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 14.

Topic: Carbohydrate metabolism, its regulation and pathology.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 15.

Topic: Lipid metabolism, its regulation and pathology.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 16.**Topic:** Lipid metabolism, its regulation and pathology.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 17.**Topic:** Basic catabolic transformations of protein molecules. Catalytic transformations of amino acids.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 18.**Topic:** Basic catabolic transformations of protein molecules. Catalytic transformations of amino acids.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction,

	but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 19.

Topic: Basic catabolic transformations of protein molecules. Catalytic transformations of amino acids.

Rating grade, points	Criteria for grading
5	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
3	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-2	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 20. Semester credit

Module 2

Content module 3 Fundamentals of molecular biology

Lesson 1.

Topic: Metabolism of heme and nucleoproteins.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 2.**Topic:** Metabolism of heme and nucleoproteins.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 3.**Topic:** Transfer of genetic information. Protein biosynthesis in cells. Mechanisms of regulation of protein biosynthesis. Antibiotics.

Rating grade, points	Criteria for grading
6	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
4	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-3	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Content module 4 Biochemistry of intercellular communications. Functional biochemistry**Lesson 4.****Topic:** Vitamins. Nomenclature, classification of vitamins, structure and molecular basis of action of individual vitamins. Vitamin deficiency.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed

	full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 5.

Topic: Vitamins. Nomenclature, classification of vitamins, structure and molecular basis of the action of individual vitamins. Vitamin deficiency.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 6.

Topic: Biochemical basis of reception. Mechanisms of signal transmission into the cell. General characteristics and classification of hormones and neurotransmitters. Mechanisms of action of hormones. Disorders of the endocrine glands and their pharmacocorrection.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 7.

Topic: Biochemical basis of reception. Mechanisms of signal transmission into the cell. General characteristics and classification of hormones and neurotransmitters. Mechanisms of action of hormones. Disorders of the endocrine glands and their pharmacocorrection.

Rating grade, points	Criteria for grading
7	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
6	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
5	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-4	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 8.

Topic: Biochemistry of the liver. Biochemical transformation of drugs in the body. Pharmaceutical biochemistry.

Rating grade, points	Criteria for grading
11-12	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
9-10	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
8-7	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
1-6	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction

Lesson 9. Semester credit

CONTROL OF CONTENT MODULES

The control of the content module (CM1, CM2, CM3, CM4) is carried out at the last practical lesson of the topics of the content module according to the calendar plan for the current academic year.

Only those applicants for higher education who have completed all types of work provided for by the curriculum (worked out all missed classes, etc.) are allowed to control the CM.

Control of the content module 1.

A written questionnaire is a means of diagnosing the level of training of higher education applicants. The questionnaire consists of two theoretical questions (the higher education applicant is given from 0 to 4 points) and 1 practical question (the higher education applicant is given from 0 to 2 points). The maximum number of points that a higher education applicant can receive is 10, the minimum is 6.

Criteria for awarding points for answering a theoretical question:

Points	Criteria for grading
4	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
3	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
2	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Criteria for awarding points for answering a practical question:

Points	Criteria for grading
2	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
1	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Control of the content module 2.

A written survey is a means of diagnosing the level of training of higher education applicants. The ticket consists of two theoretical questions (the applicant for higher education is given from 0 to 4 points) and 1 practical question (the applicant for higher education is given from 0 to 2 points). The maximum number of points that a higher education applicant can receive is 10, the minimum is 6.

Criteria for awarding points for answering a theoretical question:

Points	Criteria for grading
4	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
3	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
2	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Criteria for awarding points for answering a practical question:

Points	Criteria for grading
2	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
1	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Control of the content module 3.

A written survey is a means of diagnosing the level of training of higher education applicants. The ticket consists of three theoretical questions (the higher education applicant is given from 0 to 5 points) and 1 practical question (the higher education applicant is given from 0 to 5 points). The maximum number of points that a higher education applicant can receive is 20, the minimum is 12.

Criteria for awarding points for answering a theoretical question:

Points	Criteria for grading
5	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
4	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
3	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1-2	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Criteria for awarding points for answering a practical question:

Points	Criteria for grading
5	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
4	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
3	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1-2	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Control of the content module 4.

A written survey is a means of diagnosing the level of training of higher education applicants. The ticket consists of three theoretical questions (the higher education applicant is given from 0 to 5 points) and 1 practical question (the higher education applicant is given from 0 to 5 points). The maximum number of points that a higher education applicant can receive is 20, the minimum is 12.

Criteria for awarding points for answering a theoretical question:

Points	Criteria for grading
5	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
4	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
3	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1-2	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

Criteria for awarding points for answering a practical question:

Points	Criteria for grading
5	It is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, is able to demonstrate the knowledge provided at the level of creative use
4	It is awarded to a higher education applicant who, when answering questions, showed complete knowledge of the program material provided at the level of similar reproduction, but made several minor mistakes or one or two major mistakes.
3	It is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material, to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, and generally coped with the task
1-2	It is assigned to a higher education applicant who, when answering questions, revealed serious gaps in knowledge of the basic material, made fundamental mistakes

SEMESTER EXAM

The final grade for the educational component, which is taught over several semesters and ends with a semester exam, is assigned based on the results of the semester exam.

Higher education applicants who have passed all the tests of the educational component provided for in the curriculum, have not violated the terms of the contract, and have received a mark in the individual curriculum on admission to the session from the dean (deputy dean) of the faculty are allowed to take the exam.

The semester exam is conducted in writing. The ticket consists of 4 theoretical questions and 1 practical question (situational task, creating graphs, writing process chemistry, etc.) For each theoretical question, a higher education applicant can receive from 0 to 15 points, up to a total of 60 points. For a practical question - from 0 to 40 points. The criteria for evaluating answers to questions are shown in the table. A semester exam is considered to be successfully passed if the applicant receives 60 to 100 points.

Criteria for awarding points for answering a theoretical question:

Rating grade, points	Criteria for grading
15	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program

	material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
13-14	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
11-12	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
9-10	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction
1-8	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, if, when answering questions, the higher education applicant revealed serious gaps in the knowledge of the basic material, made fundamental mistakes.

Criteria for awarding points for answering a practical question:

Rating grade, points	Criteria for grading
36-40	is awarded to a higher education applicant who, when answering questions, has demonstrated comprehensive, systematic, in-depth knowledge of the program material, demonstrates knowledge of information sources provided by the program and creatively uses this knowledge when answering problematic questions
32-35	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made some minor mistakes
28-31	is assigned to a higher education applicant who, when answering questions, showed full knowledge of the program material provided at the level of similar reproduction, but made significant mistakes
24-27	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction
1-23	is assigned to a higher education applicant who, when answering questions, revealed insufficient knowledge of the basic program material to the extent necessary for further study and work provided for by the program at the level of reproductive reproduction, if, when answering questions, the higher education applicant revealed serious gaps in the knowledge of the basic material, made fundamental mistakes.

A higher education applicant may automatically pass a semester exam (at the discretion of the head of the department) if in each semester he or she had from 91 to 100 points for each module of the educational component. In this case, the grade is assigned as an average for the two semesters in which the educational component was studied.

The final grade in the educational component in points on a 100-point, four-point and ECTS scale.

Rating scale

Sum of points on a 100-point scale	ECTS scale	Grade on a four-point scale
90-100	A	excellent
82-89	B	добре
74-81	C	
64-73	D	satisfactorily
60-63	E	
35-59	FX	unsatisfactory
1-34	F	

"Excellent" - the higher education student has firmly mastered the theoretical material, has a deep and comprehensive knowledge of the content of the educational component, the main provisions of scientific sources and recommended literature, thinks logically and builds an answer, freely uses the acquired theoretical knowledge in the analysis of practical material, is able to identify the essential features of what has been studied through the operations of synthesis, analysis, identify cause and effect relationships, form conclusions and generalizations, demonstrates a high level of mastery of practical skills;

"Good" - the applicant for higher education has mastered the theoretical material well, knows the main aspects from primary sources and recommended literature, presents it reasonably; demonstrates practical skills, expresses his/her views on certain issues, but when presenting some issues, there is not enough depth and argumentation, some minor inaccuracies and minor errors are made. The applicant is able to highlight the essential features of what he/she has learned through the operations of synthesis, analysis, identify cause and effect relationships that may contain some minor errors, form conclusions and generalizations;

"Satisfactory" - the student has mastered the theoretical knowledge of the educational component, is guided by primary sources and recommended literature, but without a deep comprehensive analysis, justification and argumentation, makes significant inaccuracies and errors, the student has problems in identifying the essential features of the studied, in identifying cause and effect relationships and forming conclusions;

"Unsatisfactory" - the applicant has not mastered the educational material of the educational component, does not know scientific facts, definitions, is not sufficiently versed in primary sources and recommended literature, practical skills are almost not formed, the applicant has a haphazard selection of random features of the studied, is unable to perform the simplest operations of analysis and synthesis, generalization and conclusions.

FX corresponds to "unsatisfactory" and the student may be admitted to the semester control subject to some additional work.

F corresponds to "unsatisfactory" with the re-study of the educational component by the higher education student.

Head of the Department of Biological Chemistry and Veterinary Medicine, prof.



Vira KRAVCHENKO