

**Procedure for conducting attestation  
in discipline « Molecular regulation of metabolism and cell cycle »  
for students of 2023 year of admission  
under the educational programme  
33.05.01. Pharmacy,  
specialisation (profile) Pharmacy  
(Specialist's),  
form of study full-time  
for the 2025-2026 academic year**

1. General principles for calculating the rating in the discipline

The rating for a discipline is an individual assessment of the student's study of the discipline, which consists of the rating for the entire period of study of the discipline (preliminary rating) and the rating of the intermediate attestation.

2. Calculation of preliminary rating components

2.1. General principles

The discipline is studied during one semester (the fifth), therefore the preliminary rating for the discipline for the entire period of study ( $R_{\text{entire period}}$ ) corresponds to the semester rating of the discipline in the fifth semester ( $R_{\text{sem}}$ ):

$$R_{\text{entire period}} = R_{\text{sem}}$$

The semester rating of the discipline is calculated using the formula:

$$R_{\text{sem}} = (R_{\text{curr}} + R_{\text{independent work cpo}}) / 2 + R_{\text{bonus}} - R_{\text{penalty}}.$$

where  $R_{\text{curr}}$  is the current rating for the discipline,

$R_{\text{independent work}}$  is the rating of the student's independent work within the discipline,

$R_{\text{bonus}}$  is the bonus rating,

$R_{\text{penalty}}$  is the penalty rating.

2.2. Calculating the current rating in the semester

The current rating in the semester ( $R_{\text{curr}}$ ) is calculated as the arithmetic mean of all grades received by the student during the semester of studying the discipline when completing assignments of the current monitoring of academic performance, which include the following types of assignments: testing, solving situational problems, interviews on control questions.

The completion of assignments is assessed by the teacher at each seminar-type lesson based on the criteria presented below (Table 1) on a classic 5-point scale, where:

2 - unsatisfactory;

3 - satisfactory;

4 - good;

5 - excellent.

Table 1

Criteria for the forms of current certification used

Task type	Assessment criteria	Assessment on a 5-point scale			
		5	4	3	2
Testing	• Percentage	91-100	76-90	61-75	< 61

	of correct answers				
Solving situational problems	• Correctness of the answer received	correct	correct	partially correct	incorrect
	• Availability, completeness and correctness of the justification for the answer received	reasonable without comments	reasoned with comments	partially	no rationale
Interview on control questions	• Correctness of the answer	correct	correct	reasonable	incorrect
	• Completeness of the answer	complete	sufficiently complete	partially correct	incomplete
	• Structure and logic of the answer	structured, logical	basically structured, logical	incomplete	unstructured, fragmented, chaotic

At the end of the semester, Rcurr is calculated and the calculated value is converted to a 100-point scale according to Table 3.

An Rcurr value of more than 61 points is considered to be the absence of current debt.

2.3. Calculation of the rating of independent work of a student in a semester (R independent work)

The rating of the student's independent work in a semester corresponds to the student's assessment for completing the student's independent work electronic training course for a given discipline on the electronic information and educational portal of the VolgSMU. One semester of studying a discipline includes completing one student's independent work electronic training course.

The student's independent work assessment is carried out based on the criteria presented below (Table 2) on a classic 5-point scale, where:

2 - unsatisfactory;

3 - satisfactory;

4 - good;

5 - excellent.

Table 2

Evaluation criteria of the student's independent work

Task type	Assessment criteria	Assessment on a 5-point scale			
		5	4	3	2
Student's independent work in the form of an electronic course/course element at the Volgograd State Medical	• Compliance with deadlines for completing work	completed	completed	completed	Not completed
	• Completeness of study of material that is not subject to	studied completely	studied completely	studied completely	Not studied completely

University portal	assessment (viewing presentations, videos)				
	<ul style="list-style-type: none"> <li>Average score for completing current tests and the final test, taking into account the weight (current 1, final 3)</li> </ul>	> 4,50	4,00 – 4,49	3,00 – 3,99	< 3,00

At the end of each study, the student's R independent work is calculated and its calculated value is converted to a 100-point scale according to Table 3. An Rcpo value of more than 61 points is considered to be the absence of current debt.

2.4. Conversion of the current rating and the independent student's work rating into a score on a 100-point system

At the end of the semester, the current rating and the independent student's work rating of the student, calculated on a 5-point system, are converted into a score on a 100-point system. The conversion is made according to Table 3.

Таблица 3

Conversion to the 100-point system

Average score on a 5-point scale	Score on a 100-point scale	Average score on a 5-point scale	Score on a 100-point scale	Average score on a 5-point scale	Score on a 100-point scale	Average score on a 5-point scale	Score on a 100-point scale
5,00	100	3,45	70	2,48	40	2,09	10
4,95	99	3,40	69	2,46	39	2,08	9
4,90	98	3,35	68	2,44	38	2,07	8
4,85	97	3,30	67	2,42	37	2,06	7
4,80	96	3,25	66	2,40	36	2,05	6
4,75	95	3,20	65	2,38	35	2,04	5
4,70	94	3,15	64	2,36	34	2,03	4
4,65	93	3,10	63	2,34	33	2,02	3
4,60	92	3,05	62	2,32	32	2,01	2
4,5	91	3,00	61	2,30	31	2,00	1
4,47	90	2,98	60	2,29	30		
4,43	89	2,95	59	2,28	29		
4,40	88	2,93	58	2,27	28		
4,37	87	2,90	57	2,26	27		
4,33	86	2,88	56	2,25	26		
4,30	85	2,85	55	2,24	25		
4,27	84	2,83	54	2,23	24		
4,23	83	2,80	53	2,22	23		

4,20	82	2,78	52	2,21	22		
4,17	81	2,75	51	2,20	21		
4,13	80	2,73	50	2,19	20		
4,10	79	2,70	49	2,18	19		
4,07	78	2,68	48	2,17	18		
4,03	77	2,65	47	2,16	17		
4,00	76	2,63	46	2,15	16		
3,90	75	2,60	45	2,14	15		
3,80	74	2,58	44	2,13	14		
3,70	73	2,55	43	2,12	13		
3,60	72	2,53	42	2,11	12		
3,50	71	2,50	41	2,10	11		

### 2.5. Bonus and Penalty Rating

Bonuses and penalties are set on a 100-point scale. Bonus and penalty criteria are given in Table 4.

Table 4

#### Bonuses and penalties for discipline

Bonuses	Nomination	Points
Student research work	Participation in the Olympiad in the discipline profile without receiving a prize place	+1
Student research work	Participation in the Olympiad in the discipline profile and receiving a diploma of 3rd prize place	+2
Student research work	Participation in the Olympiad in the discipline profile and receiving a diploma of 2nd prize place	+3
Student research work	Participation in the Olympiad in the discipline profile and receiving a diploma of 1st prize place	+5
Penalties	Nomination	Points
Disciplinary	Absence from a lecture or practical class without a valid reason	- 2,0
	Failure to complete assignments during practical classes	- 2,0
	Repeatedly being late for lectures or practical classes	- 1,0
	Violation of safety regulations	- 2,0
Causing material damage	Damage to equipment and property	- 2,0

### 3. Calculation of the intermediate attestation rating

Midterm assessment in the discipline is carried out in the form of a test and includes the following types of tasks: interview.

The assessment of the level of formation of the necessary competencies in the student is carried out on a 100-point scale according to the criteria of Table 5.

Table 5

Criteria for assessing the level of assimilation of the discipline material and the formation of competencies

Characteristics of the answer	ECTS assessment	100-point scale according	Level of development of competence in the discipline
A complete, detailed answer to the question is given, a set of conscious knowledge about the object is shown, manifested in free operation of concepts, the ability to identify its essential and non-essential features, cause-and-effect relationships. Knowledge about the object is demonstrated against the background of its understanding in the system of this science and interdisciplinary connections. The answer is formulated in scientific terms, presented in literary language, logical, evidence-based, demonstrates the author's position of the student. The student demonstrates a high advanced level of competence development. Midterm assessment passed.	A	100-96	HIGH
A complete, detailed answer to the question is given, a set of conscious knowledge about the object is shown, the main provisions of the topic are convincingly disclosed; a clear structure, logical sequence, reflecting the essence of the concepts, theories, and phenomena being disclosed can be traced in the answer. Knowledge about the object is demonstrated against the background of its understanding in the system of this science and interdisciplinary connections. The answer is presented in literary language in scientific terms. There may be some errors in defining concepts, which the student corrects independently in the process of answering. The student demonstrates a high level of competence development. The midterm assessment has been passed.	B	95-91	
A complete, detailed answer to the question is given, the ability to identify essential and non-essential features, cause-and-effect relationships is demonstrated. The answer is clearly structured, logical, and presented in literary language in scientific terms. There may be shortcomings or minor errors that the student corrects with the help of the teacher. The student demonstrates an average advanced level of competence development. Midterm assessment has been passed.	C	90-81	MIDDLE

A complete, detailed answer to the question is given, the ability to identify essential and non-essential features, cause-and-effect relationships is demonstrated. The answer is clearly structured, logical, and presented in scientific terms. However, minor errors or shortcomings are made, which the student corrects with the help of the teacher's "leading" questions. The student demonstrates an average sufficient level of competence development. Midterm assessment has been passed.	D	80-76	
A complete, but not sufficiently consistent answer to the question is given, but the ability to identify essential and non-essential features and cause-and-effect relationships is demonstrated. The answer is logical and presented in scientific terms. There may be 1-2 errors in defining basic concepts that the student has difficulty correcting independently. The student demonstrates a low level of competence development. Interim assessment passed.	E	75-71	LOW LEVEL
The answer is not complete or detailed enough. The logic and sequence of presentation are violated. Errors were made in the disclosure of concepts and the use of terms. The student is not able to independently identify essential and non-essential features and cause-and-effect relationships. The student can concretize generalized knowledge, proving its main provisions using examples only with the help of the teacher. Speech design requires amendments and correction. The student demonstrates an extremely low level of competence development. Midterm assessment passed.	E	70-66	
The answer is incomplete, the logic and sequence of presentation are significantly violated. Gross errors were made in determining the essence of the concepts, theories, and phenomena being disclosed, due to the student's misunderstanding of their essential and non-essential features and relationships. The answer does not contain conclusions. The ability to reveal specific manifestations of generalized knowledge is not demonstrated. Speech design requires amendments and correction. The student demonstrates a threshold level of competence development. Midterm assessment passed.	E	65-61	THRESHOLD
An incomplete answer is given, representing scattered knowledge on the topic of the question with significant errors in definitions. Fragmentation and illogical presentation are present. The student does not understand the connection of this concept, theory, phenomenon with other objects of the discipline. There are no conclusions, specification and evidence of presentation. Speech is illiterate. Additional and clarifying questions from the teacher do not lead to the correction of the student's answer not only to the question posed, but also to other questions of the discipline. Competence is absent. Midterm assessment has not been passed.	Fx	60-41	COMPETENCE LACKS

No answers were received to the basic questions of the discipline. The student does not demonstrate indicators of achievement of the formation of competencies. Competence is absent. Interim assessment has not been passed.	F	40-0	
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#### 4. Calculation of the final rating for the discipline

The final grade for the discipline ( $R_{\text{final}}$ ) is calculated using the formula:

$$R_{\text{final}} = (R_{\text{prev}} + R_{\text{intermediate}}) / 2$$

The final grade calculated on a 100-point scale is converted to a 5-point scale according to Table 6.

Table 6

Final grade for the discipline

100-point scale according	Assessment according to the system "pass - fail"	Оценка по ECTS
100-96	Pass	A
95-91		B
90-81		C
80-76		D
75-71		E
70-66		
65-61		
60-41	Fail	Fx
40-0		F

Considered at the department meeting fundamental and clinical biochemistry, protocol of «29» may 2025 y., № 12.

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