

*Summary of the working program of the academic discipline*

**« PHYSIOLOGY WITH THE BASICS OF ANATOMY »**

General Educational Program of higher education (specialist's degree programs)

Specialty 33.05.01 Pharmacy

Department of normal physiology named after N.Yu. Belenkov

**1. The purpose of mastering the discipline:** participation in the formation of competence GPC - 2.

**2. Position of the academic discipline in the structure of the General Educational Program (GEP).**

2.1. The discipline refers to the core part of Block 1 of GEP HE.

**3. Deliverables of mastering the academic discipline and metrics of competence acquisition**

Mastering the discipline aims at acquiring the following general professional (GPC) competencies:

No.	Competence code	The content of the competence (or part of it)	Code and name of the competence achievement indicator	As a result of studying the discipline , students should:		
				Know	Be able to	Possess
1.	GPC-2	Able to apply knowledge about morphofunctional features, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-2.1 Analyzes the pharmacokinetics and pharmacodynamics of medicines based on knowledge about morphofunctional features, physiological conditions and pathological processes in the human body GPC-2.2 Explains the main and side effects of drugs, the effects of their combined use and interaction with food, taking into account morphofunctional features, physiological conditions and pathological processes in the human body GPC-2.3 Takes into account morphofunctional features, physiological conditions and pathological processes in the human body when choosing non-prescription medicinal products and other pharmacy products	Physiological processes occurring in human organs and systems, mechanisms of their regulation. Methods of functional and laboratory diagnostics (methods of pulse and blood pressure research, spirometry and spirometry, methods of sensory systems research, thermometry, hematology studies).	Measure the most important indicators of human vital activity (pulse, blood pressure); Analyze the results of the study of the physiological functions in the normal condition.	Skills of measurement of the main functional characteristics of the body (pulse, blood pressure) and interpretation of the results; skills of using of the physiological terms.

**4. Volume of the academic discipline and types of academic work**

Total labor intensity of the discipline is 6 CU (216 AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in credit units (CU)	volume in academic hours (AH)	volume in credit units (CU)	
			Semester 1	Semester 2
Classroom work, including	<b>3</b>	<b>108</b>	<b>54</b>	<b>54</b>
Lectures (L)	0,7	24	12	12
Laboratory practicum (LP)*	2,3	84	42	42
Practicals (P)				
Clinical practice (CP)				
Seminars (S)				
Student's individual work (SIW)	<b>2</b>	<b>72</b>	<b>36</b>	<b>36</b>
Mid-term assessment exam	<b>1</b>	<b>36</b>		36
<b>TOTAL LABOR INTENSITY</b>	<b>6</b>	<b>216</b>	<b>90</b>	<b>126</b>

### 5. Sections of the academic discipline and competencies that are formed

№	Competence code	Section name of the discipline
1.	GPC -2	<b>General physiology</b> - Introduction to the subject - Physiology of excitable tissues
2.	GPC -2	<b>Special physiology</b> - Physiology of nerve conductors - Physiology of muscles - Metabolism and energy exchange - Blood Physiology - Cardiovascular system - Respiratory system - Digestive system - Excretory system
3.	GPC -2	<b>Integrative activity of the organism</b> - Regulation of physiological functions - Physiology of the central nervous system - Glands of internal secretion - Higher nervous activity - Sensory systems (analyzers)