Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector
_____ / Trankovskaya L.V./
"9" июня 2025

DISCIPLINE WORK PROGRAM

Б1.О.09 Human anatomy. Head and neck anatomy

(name of discipline)

Specialty	**31.05.03 Dentistry for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing health care in patients with dental pathology)
Mode of study	Full-time
Period of mastering the BEP	**5 years** (nominal length of study)
Department	of Human Anatomy

Vladivostok, 2025

Program of the discipline **Б1.О.09 Human anatomy. Head and neck anatomy** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 984 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia Report No. 8/24-25 dated March 31, 2025.

Work program for the discipline was developed by the writing team of the Department of Human Anatomy of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the head of the department, Doctor of Medical Sciences, professor Chertok V.M.

Developed by:

Assistant professor	Candidate of Medical Sciences	Alekseeva.E.O.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.09 Human anatomy. Head and neck anatomy

The purpose of mastering the discipline is acquiring knowledge of the structure, topography, blood supply, and innervation of the organs of the head and neck, internal organs, structure and functions of the musculoskeletal system, sensory organs, as well as the principles of obtaining morphological knowledge necessary for further training in other fundamental medical disciplines, as well as for clinical and preventive disciplines.

Objectives of mastering the discipline:

1. Mastering knowledge of the structure, topography, blood supply and innervation of the head and neck organs, internal organs, structure and functions of the musculoskeletal system, sensory organs, as well as the principles of obtaining morphological knowledge necessary for further training in other fundamental medical disciplines, as well as for clinical and preventive disciplines
2. Developing skills of using the medical and anatomical conceptual framework, including English and Latin anatomical terminology;
3. Acquiring knowledge on the interdependence and unity of the structure and function of both individual organs and the body as a whole, the relationship between the body and changing environment, the influence of environmental factors, the nature of work, profession and social conditions on the development and structure of the body;
4. Developing professionally important personal qualities among students that are important for the implementation of the achieved competencies.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.09 Human anatomy. Head and neck anatomy** is included in the mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), and is part of the 1st and 2nd semesters' curriculum.

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.09 Human anatomy. Head and neck anatomy** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

Competency Code	**Competency Description**	**Competency Indicators**
Universal Competencies		
Inclusive competency	UC-9. Is able to use basic knowledge of defectology in social and professional settings	CI.UC-9_1- determines the necessity of an inclusive approach based on knowledge of defectology in social and professional settings CI.UC-9_2- employs inclusive interaction methods in professional and social settings CI.UC-9_3- evaluates results of inclusive interaction and makes necessary adjustments

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.09 Human anatomy. Head and neck anatomy**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *Examination of the patient in order to make a diagnosis*
2. *Implementation of anti-epidemic and other measures of public health protection as well as monitoring their effectiveness*

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

4. SCOPE AND CONTENT OF THE DISCIPLINE

4.1. Scope of the Discipline and Types of Academic Work

Type of Academic Work		**Total Hours**	**Semesters**	
			1	**2**
			hours	**hours**
1		2	3	4
Classroom hours (total), including:		**162**	**72**	**90**
Lectures (L)		46	20	26
Practical classes (C)		116	52	64
Independent work of the student (IW), including:		**90**	**36**	**54**
Electronic educational resource (EER)		20	10	10
Preparing for classes (CP)		46	12	34
Preparing for continuous assessment (CAP)		24	14	10
Interim assessment		36		36
Type of interim assessment	pass/fail test (T)			
	exam (E)	E		E
TOTAL: TOTAL credit value	hrs.	**288**	**108**	**180**
	credits	**8**	**3**	**5**

4.2. Contents of the Discipline

4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

No.	**Lecture Topic**	**Hours**
1	2	3
	Semester No. 1	
1.	Introduction to human anatomy. Contents and objectives of anatomy	2
2.	Principles of the systemic organization of the human body	2
3.	Functional anatomy of the passive part of the musculoskeletal system. Skeleton. Bone as an organ	2
4.	Functional anatomy of the passive part of the musculoskeletal system. Arthrosyndesmology	2
5.	Functional anatomy of the passive part of the musculoskeletal system. Anatomy of the skull. Developmental, individual, age- and sex-related characteristics of the cerebral skull (neurocranium)	2
6.	Developmental, individual, age- and sex-related characteristics of the facial skull. Features of the jaw structure as components of the maxillary system. Joints of the skull. Features of the temporomandibular joint structure	2
7.	Functional morphology of the active part of the musculoskeletal system. The muscular system. Skeletal muscles	2
8.	Topography of the neck, fascia, and fascial spaces of the neck	2

9.	Introduction to splanchnology	2
10.	Functional anatomy of the respiratory system	2
	Hours per semester total	**20**
	Semester No. 2	
1.	Functional anatomy of the oral cavity. Developmental, individual, and age-related characteristics	2
2.	Functional anatomy of the digestive system	2
3.	Anatomy and topography of the peritoneum	2
4.	Functional anatomy of the urinary system	2
5.	Functional anatomy of the male and female reproductive system	2
6.	Functional anatomy of the endocrine system	2
7.	Introduction to neurology. Functional morphology of the spinal cord	2
8.	Functional morphology of the brain and sensory organs	2
9.	Functional morphology of the peripheral nervous system. Cranial nerves.	2
10.	Functional morphology of the peripheral nervous system. Spinal nerves	2
11.	Functional morphology of the autonomic nervous system	2
12.	Introduction to angiology. Functional anatomy of the heart	2
13.	Functional anatomy of the circulatory system Functional anatomy of the lymphatic and immune systems. Functional morphology of the microcirculatory bed	2
	Hours per semester total	**26**

4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

No.	**Practical Class Topic**	**Hours**
1	2	3
	Semester No. 1	
1	Functional anatomy of the trunk skeleton	4
2	Functional anatomy of the bones and joints of the shoulder girdle and upper limb	4
3	Functional anatomy of the bones and joints of the pelvis and lower limb	4
4	Knowledge assessment (bones of the trunk and limbs and their joints) using anatomical preparations Functional anatomy of the bones of the neurocranium	4
5	Functional anatomy of the facial bones	4
6	Functional anatomy of the skull as a whole. Joints of the bones of the skull	4
7	Knowledge assessment (bones of the skull and their joints) using anatomical preparations	4
8	Muscles and topography of the back, chest and abdomen	4
9	Muscles and topography of the upper limb	4
10	Muscles and topography of the lower limb	4
11	Knowledge assessment (myology) using anatomical preparations Functional anatomy of the respiratory system: nasal cavity, pharynx, larynx (structural features of the walls, sections, communications/connections)	4
12	Functional anatomy of the respiratory system: trachea, bronchi, lungs, pleura, mediastinum	4
13	Knowledge assessment using anatomical preparations (respiratory system)	4
	Hours per semester total	**52**
	Semester No. 2	
1	Functional anatomy of the oral cavity and the maxillary system	4
2	Functional anatomy of the hollow organs of the digestive system	4

3	Functional anatomy of parenchymal organs of the digestive system. Anatomy and topography of the peritoneum	4
4	Knowledge assessment (digestive system) using anatomical preparations Functional anatomy of the urinary system	4
5	Functional anatomy of the male and female reproductive system	4
6	Knowledge assessment (genitourinary and endocrine systems) using anatomical preparations	4
7	Introduction to neurology. Functional anatomy of the spinal cord	4
8	Functional anatomy of the brain	4
9	Functional anatomy of the sensory organs	4
10	Knowledge assessment (neurology and estesiology) using anatomical preparations	4
11	Spinal nerves. Somatic plexuses. The autonomic nervous system	4
12	Knowledge assessment (neurology) using anatomical preparations	4
13	Functional anatomy of the heart. Pulmonary circulation	4
14	Functional anatomy of the systemic circulation: arteries	4
15	Functional anatomy of the venous and lymphatic systems	4
16	Knowledge assessment (cardiovascular and immune systems) using anatomical preparations	4
	Hours per semester total	**64**

4.2.3. Independent Work of the Student

No.	Name of the Discipline Section	Type of IW	Total Hours
1	3	4	5
	Semester No. 1		
1	Osteology and syndesmology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; student research activity	8
2	Craniology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; student research activity	8
3	Arthrosyndesmology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; student research activity	6
4	Myology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; student research activity	8
5	Respiratory system	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student research activity	6
	Hours per semester total		**36**
	Semester No 2		
1	Digestive system	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student	8

		research activity	
2	Urinary and endocrine systems	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student research activity	8
3	Central nervous system and esthesiology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student research activity	12
4	Peripheral nervous system	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student research activity	12
5	Angiology and immunology	Preparing for practical classes using recommended and supplementary reading; preparing for continuous assessment; working with case studies; student research activity	14
	Hours per semester total		**54**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Atlas of human anatomy. 7th revision ed. [Electronic resource]..	R. D. Sinelnikov, Y. R. Sinelnikov, A. Y. Sinelnikov	Moscow: New Wave, 2019. URLhttps://www.books-up.ru/ /	Unlimited access
2	Human anatomy: textbook : in 2 volumes [Electronic resource]	I. V. Gaivoronsky, G. I. Nichiporuk, A. I. Gaivoronsky	Moscow: GEOTAR-Media, 2018. - 480 p. URL: http://www.studmedlib.ru2.	Unlimited access

Supplementary reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5

1	Human anatomy: textbook: in 3 volumes: , [Electronic resource].	edited by L. L. Kolesnikov.	Moscow : GEOTAR-Media, 2015, URL: http://www.studmedlib.ru	Unlimited access
2	Morphofunctional organization of human head and neck organs : textbook. manual for students of medical universities	Chertok V.M., Edranov S.S., Kargalova E.P.	Vladivostok : Medicine DV, 2016. 168 p. http://www.studmedlib.ru	Unlimited access
3	Anatomy of the head and neck. Introduction to clinical anatomy : textbook.	Bazhenov D.V.	Moscow : GEOTAR-Media, 2014. 464 p. URL: http://www.studmedlib.ru	Unlimited access

Online resources

1. Electronic library system "Student Consultant" http://studmedlib.ru/
2. Electronic library system "University Library Online"http://www.biblioclub.ru/
3. Electronic library system "Urait" https://urait.ru/
4. Electronic library system "BookUp" https://www.books-up.ru/
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/

Online resources and respective user guides are available on the Library and Information Center website Library and Information Center — PSMU (tgmu.ru)

5.2. Discipline (Module) Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia (tgmu.ru)" page of the official website of the university.

5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.03 Dentistry for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.

8. TUTORIAL WORK

Type of tutorial work	Forms and approaches to tutorial work	Assessment criteria
Assistance in personal growth	Overt Talks and problem-centric debates aimed at promotion of healthy lifestyle. Participation in interdepartmental conferences aimed at formation of healthy lifestyle and development of skills necessary to preserve and improve health.	Portfolio
	Covert – creating atmosphere and infrastructure. Developing a culture of healthy lifestyle, the ability to preserve and improve health. Creating atmosphere of kindness and respect with a high level of	

	communication during implementation of the discipline.	
Civic position and values	Overt Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks). Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Focusing on civic values-oriented position and legal awareness. Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies. Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	