

**Educational and Scientific Institute of Medicine
Department of Ophthalmology**

Syllabus of the academic discipline

"OPHTHALMOLOGY"

(Main discipline)

Educational level: second (master's2)

Discipline: 22 "Healthcare"

Specialty: 221 "Dentistry"

Educational and
professional
program: "Dentistry"

2025/2026 academic year

Department of Ophthalmology

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Syllabus of the academic discipline: "Ophthalmology".

Higher education level: second (master's) .

Specialty: 221 "Dentistry".

Educational program: Educational and professional program " Dentistry".

1. Course abstract.

Semester(s) : 7, 8.

Module volume: total number of hours – 45, of which practical classes – 30 hours, independent work – 15 hours; number of ECTS credits – 1.5.

The goal of the course is to acquire the following competencies :

Integral: the ability to solve complex tasks and problems in the field of healthcare in the specialty "Dentistry" in professional activities or in the process of study, which involves conducting research and/or implementing innovations and is characterized by uncertainty of conditions and requirements.

General Competences (GC):

GC1. Ability for abstract thinking, analysis and synthesis.

GC2. Knowledge and understanding of the subject area and understanding of professional activity.

GC3. Ability to apply knowledge in practical activities.

GC4. Ability to communicate in the state language both orally and in writing.

GC5. Ability to communicate in English.

GC6. Skills in using information and communication technologies.

GC7. Ability to search, process and analyze information from various sources.

GC8. Ability to adapt and act in a new situation.

GC9. Ability to identify, pose and solve problems.

GC10. The ability to be critical and self-critical.

GC11. Ability to work in a team.

GC13. Ability to act socially responsibly and consciously.

GC14. Ability to exercise 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, and the rights and freedoms of man and citizen in Ukraine.

GC15. The ability to preserve and multiply the moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and engineering, to use various types and forms of physical activity for active recreation and leading a healthy lifestyle.

Special (professional, subject) competencies (SC):

SC1. Ability to collect medical information about the patient and analyze clinical data.

SC2. Ability to interpret the results of laboratory and instrumental studies.

SC3. Ability to diagnose: determine preliminary, clinical, final, concomitant diagnosis, emergency conditions.

SC7. Ability to determine the tactics of managing patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.

SC8. Ability to perform medical and dental procedures.

SC10. Ability to organize and conduct medical evacuation activities.

SC11. Ability to determine tactics, methods and provide emergency medical care.

SC13. Ability to assess the impact of the environment on the health of the population (individual, family, population).

SC14. Ability to maintain regulatory medical documentation.

SC15. Processing of state, social and medical information.

Discipline learning outcomes .

Know :

- general issues of organizing ophthalmological care;
- etiology, pathogenesis and classification of diseases of the organ of vision;
- features of clinical symptoms of the main diseases of the organ of vision;

- modern standards for diagnosing diseases of the organ of vision;
- modern principles of treatment of patients with various pathologies of the organ of vision ;
 - standards for providing emergency care in ophthalmology;
 - standards for providing emergency care for injuries to the organ of vision .

Be able:

- make a preliminary diagnosis of the main diseases and injuries of the organ of vision;
- provide emergency medical assistance in case of emergencies and injuries to the organ of vision;
- make decisions regarding treatment tactics for diseases and injuries of the organ of vision;
- to highlight the connection between the pathological process in the patient's body and the disease of the organ of vision, to determine and provide medical suggestions;
- be able to carry out preventive measures to prevent the occurrence of epidemiological outbreaks, damage to the organ of vision and the development of a severe form of disability - blindness .

Able to demonstrate: ability to work with patients with diseases of the organ of vision.

Possess the skills: to collect data on the patient's complaints and history of the disease; to identify the leading clinical symptom or syndrome; to determine the relationship of the pathological process in the patient's body with a disease of the organ of vision and to establish a preliminary diagnosis of the disease or damage to the organ of vision; to make decisions regarding the tactics of treating the disease or damage to the organ of vision; to provide emergency medical care in case of emergencies, damage to the organ of vision; to maintain medical records.

Independently solve: typical tasks of a doctor's activity in the field of healthcare, the scope of which is provided for by certain lists of syndromes and symptoms of diseases, emergency conditions and illnesses.

Required educational components (prerequisites , corequisites , and postrequisites):

- prerequisites: human anatomy, history of medicine, medical biology, histology, cytology and embryology, physiology, pathomorphology , pathophysiology, medical and biological physics, medical chemistry, bioorganic and biological chemistry, Ukrainian language (by professional direction), foreign language, life safety, basics of bioethics and biosafety , microbiology, virology, pharmacology, Latin language and medical terminology, clinical anatomy and operative surgery, medical informatics, patient care, propaedeutics of internal medicine, general surgery, radiology, medical psychology;

- co-requisites: phthisiology, pediatrics, surgery, obstetrics and gynecology, social medicine, public health, urology, otorhinolaryngology , internal medicine, neurology, dermatology, venereology, forensic medicine, psychiatry, narcology, medical law;

- post-requisites: internal medicine, infectious diseases, epidemiology, occupational diseases, oncology, clinical pharmacology, pediatrics, pediatric infectious diseases, medical genetics, health care organization, surgery, traumatology and orthopedics, clinical immunology and allergology, anesthesiology and intensive care , emergency and urgent medical care, radiation medicine, neurosurgery.

Content of the discipline.

Topics of practical classes.

No.	Topic	Number of hours
1 .	Anatomical and topographic features of the organ of vision. Functions of the organ of vision. Refraction and accommodation.	6.0
2.	Diseases of the eyelids, lacrimal organs, orbit. Diseases of the conjunctiva. Diseases of the cornea. Diseases of the vascular tract.	6.0
3.	Diseases of the lens. Glaucoma. Diseases of the retina and optic nerve.	6.0
4.	Damage to the organ of vision. Emergency care. Emergencies in ophthalmology.	6.0
5.	Strabismus. Changes in the organ of vision in general diseases. Changes in the organ of vision in diseases of the body with simultaneous damage to the organ of	6.0

	vision and the maxillofacial system. Final control.	
Total		30

Topics that are proposed for independent study by students: History of ophthalmology in the 17th-20th centuries. Diseases of the sclera. Diseases of the vitreous body. Expertise in ophthalmology.

Types of training sessions: lecture, practical session, consultation.

Forms of study: full-time.

Teaching methods: verbal, explanatory and demonstrative, problem-based teaching method, reproductive, research, etc.

Control methods: oral, written, practical, test, etc.

Forms of final control: final control (semester 7, 8).

Tools for diagnosing learning success: individual tasks, presentations, questions for current control, cases, test questions, test tasks, situational tasks, results of laboratory and instrumental studies, questions for final control.

Language of instruction: Ukrainian.

2. Evaluation.

Evaluation of ongoing learning activities.

Traditional scale	Conversion into points
"5"	16
"4"	13
"3"	10
"2"	0

Current assessment	Traditional scale	Conversion into points	Medical history	Maximum points for current learning activity	Maximum number of points for the final control
T1-T5	"5"	16	-	80	120
	"4"	13			

	"3"	10			
	"2"	0			

The final score for the current activity is determined as the arithmetic sum of the points for each lesson. **The maximum number of points for the current educational activity** is 80 points. The assessment of the students' independent work, which is provided for in the practical lesson along with the classroom work, is carried out during the current control of the topic in the corresponding classroom lesson. The assessment of topics that are submitted for independent study and are not included in the topic of classroom educational lessons is controlled during the final control.

The maximum number of points for the final test is 120 points.

The final control consists of answering 3 theoretical questions, writing tests on emergency conditions, performing a practical skill, and solving a situational problem.

Evaluation criteria for the final examination.

Criteria for evaluating answers to theoretical questions.

Traditional assessment	Conversion into points
"5"	24
"4"	18
"3"	13
"2"	0

Writing tests on emergency conditions (or oral response) :

12 questions (2 points for each correct answer).

Implementation of practical skills by students.

12 points	The student performs the manipulation without any comments from the teacher.
6 points	The student can perform a manipulation with difficulties that can be eliminated with the help of the teacher.
0 points	The student cannot perform the manipulation.

Assessment for a situational task.

12 points	Full answer
6 points	Incomplete answer

When assigning a grade for a discipline, the student's accumulated points for current studies and the result of the final control in points are taken into account. **The maximum number of points that a student can receive while studying a discipline** is 200 points. The student's performance assessment for the discipline is assigned on a multi-point scale and is determined by the ECTS system and the traditional scale adopted in Ukraine. To pass the discipline, the total number of points received by the student must be at least the minimum, which is determined by the working curriculum for the discipline, and corresponds to the minimum value of the grade E, and therefore is 111 points.

3. Course policy.

Mandatory adherence to academic integrity by students, namely:

independent performance of all types of work, tasks, and forms of control provided for by the work program of this academic discipline;

references to sources of information when using ideas, developments, statements, information;

compliance with the norms of legislation on copyright and related rights;

providing reliable information about the results of one's own educational (scientific, creative) activities, research methods used and sources of information.

DEVELOPERS : Head of the Department of Ophthalmology, Doctor of Medical Sciences, Professor Zhaboiedov D.G., Associate Professor of a higher education institution, Candidate of Medical Sciences, Associate Professor Greben N.K., Associate Professor of a higher education institution, Candidate of Medical Sciences, Associate Professor Skrypnychenko I.D., Associate Professor of a higher education institution, PhD, Associate Professor Komarova T.M., Assistant Professor of a higher education institution, Candidate of Medical Sciences Salata P.M.

Discussed and approved at the meeting of the Department of Ophthalmology (Protocol No. 1 from September 1, 2025) **and the meeting of the cyclical methodological commission for surgical disciplines** (Protocol No. 1 from September 15, 2025).