



“APPROVED”

Chairman of the Admissions Committee
Acting Rector of the International
Academy of Ecology and Medicine


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PROGRAMME
ENTRANCE EXAM IN THE LANGUAGE OF INSTRUCTION
(ENGLISH)

for foreign citizens and stateless persons
for obtaining a Master's degree in the specialties:
I1 Dentistry, I2 Medicine

KYIV 2026

INTRODUCTION

The programme of the entrance examination in the language of instruction (English) is intended for conducting entrance testing at the International Academy of Ecology and Medicine in the specialties: I1 Dentistry, I2 Medicine for foreign citizens and stateless persons, in accordance with the Laws of Ukraine “On Education”, “On Higher Education”, the Admission Rules to Higher Education Institutions of Ukraine, and the Admission Regulations of the International Academy of Ecology and Medicine for 2026.

The programme is developed in accordance with the international standard CEFR (Common European Framework of Reference for Languages) and is aimed at assessing applicants’ language competence at B2 level.

The entrance examination is designed to determine the applicant’s language and communicative competence in English necessary for successful further studies.

The programme includes assessment criteria, structure, and evaluation procedures.

The entrance examination is conducted in the form of a test.

REQUIREMENTS FOR LANGUAGE COMPETENCE

1. Language Competence

Applicants must: demonstrate knowledge of English language norms, correctly use grammatical structures of varying complexity, apply appropriate style depending on context, use a wide vocabulary corresponding to B2 level, follow norms of modern standard English.

2. Communicative Competence

Listening: understand authentic speech in everyday and academic contexts, grasp both general and detailed information, understand monologues and dialogues of different topics, accurately interpret spoken information.

Reading: understand texts of various genres (informational, journalistic, popular science), identify the main idea and details, understand the author's position and logic, skim texts efficiently for specific information, establish connections between facts and events.

Writing: produce coherent written texts (letters, essays, messages), express opinions with аргументацією, use complex grammatical structures, follow structure and formatting norms.

Speaking: participate in dialogues and discussions, express and justify opinions, produce logical monologues, use appropriate language for communication situations.

PROCEDURE OF THE ENTRANCE EXAM:

Duration: 120 minutes

Number of tasks: 25 test questions

Each question has one correct answer

Each correct answer: 4 points

Incorrect answer: 0 points

Maximum score: 100 points

GRAMMAR, WORD FORMATION AND SYNTAX

Noun: countable and uncountable nouns, plural forms, foreign-origin nouns, articles (a, an, the, zero article), agreement with adjectives and numerals, prepositions (in, on, at, to, from, with, without, for, etc.).

Adjective: agreement with nouns, use in descriptions, predicative use, degrees of comparison:

comparative (bigger, more interesting), superlative (the biggest, the most important), analytical forms (more, most).

Numeral: cardinal and ordinal numbers, use in dates and time, agreement with nouns.

Pronoun: personal (I, you, he, she, it, we, they), possessive (my, your, his, her, their), demonstrative (this, that, these, those), interrogative (who, what, which), negative (nobody, nothing), relative (who, which, that), use in complex sentences.

Verb

Tenses: Present (Present Simple, Present Continuous, Present Perfect), Past (Past Simple, Past Continuous, Past Perfect), Future (Future Simple, be going to, Present Continuous).

Voice: Active Voice, Passive Voice.

Modal Verbs: can, could, may, might, must, have to, should, expressing possibility, obligation, advice.

Conditionals: Zero Conditional, First Conditional, Second Conditional, Third Conditional, Mixed conditionals.

Other Grammar: Reported Speech, Gerund and Infinitive, Phrasal Verbs.

WORD FORMATION: degrees of comparison, formation of nouns, adjectives, verbs, prefixes (un-, re-, dis-), suffixes (-tion, -ment, -ness), word meaning changes.

SYNTAX

Simple Sentence: extended sentences, affirmative and negative forms, subject-verb agreement.

Questions: general questions (Do you study?), special questions (Where do you live?), indirect questions (I don't know where he lives).

Imperatives:

different levels of politeness: Open the door, Please help me, Could you help me?

Complex Sentences: compound (and, but, however, so), complex: reason (because), time (when), condition (if), purpose (so that).

TOPICS FOR FREE SPEAKING

Person – personal information, appearance, character, family, friends

Home – housing, living conditions, interior

Daily Life – routine, duties, habits

Leisure – hobbies, interests

City and Transport – city description, directions

Travelling – experience, transport, hotels

Education – studies, subjects, plans

Work – professions, duties, career

Shopping – goods, payment

Food and Drinks – diet, ordering food

Services – bank, post, services

Health – doctor, symptoms, medicine

Environment – weather, nature, ecology

Traditions and Holidays – culture, customs, greetings

ENTRANCE EXAM PROGRAMME IN MATHEMATICS

Numbers and Expressions: natural, integers, rational and real numbers, operations with numbers, percentages, powers and roots.

Algebra. Expressions and Transformations: identity transformations, rational and irrational expressions.

Equations and Inequalities: linear, quadratic, fractional equations, systems of equations, inequalities and their systems.

Functions: concept of function; main types: linear, quadratic, power, exponential, logarithmic; graphs of functions.

Elements of Combinatorics, Probability and Statistics: permutations, arrangements, combinations, probability of random events, averages.

Geometry:

Planimetry: triangles, quadrilaterals, circle and disk, areas of figures.

Stereometry: lines and planes in space, prism, pyramid, cylinder, cone, sphere, volumes and surface areas.

ENTRANCE EXAM PROGRAMME IN WORLD HISTORY

Ancient History: early civilizations, development of humanity, ancient agricultural cultures, classical civilizations (Greece, Rome).

Medieval Europe and the World: formation of medieval states, feudal system, Christianity in Europe, migrations, Arab world and Islamic civilization, medieval cities and trade.

States and Society in the Middle Ages: development of monarchies, influence of the Byzantine Empire, Crusades, medieval culture and education.

Early Modern Period (16th–18th centuries): great geographical discoveries, Reformation and Counter-Reformation, centralized states, revolutions (English, French).

19th Century: Industrial Revolution, national movements, colonial empires, social and political changes.

World War I and Interwar Period: causes and consequences, Versailles-Washington system, Great Depression, totalitarian regimes.

World War II: causes, course, coalitions, occupation, resistance movements, consequences.

Post-War World: Cold War, decolonization, global integration, development of international organizations (UN, EU, etc.).

Modern World: globalization, conflicts (late 20th–early 21st century), democracy development, modern political and economic trends.

ENTRANCE EXAM PROGRAMME IN BIOLOGY ***(optional subject)***

Chemical composition, structure and functioning of cells.

Genetic information expression.

Metabolism and energy transformation.

Laws of heredity and variation.

Genetics and selection of organisms.

Biotechnology and biodiversity.

Viruses, viroids, prions.

Prokaryotes, algae, plants, fungi, lichens.

Unicellular heterotrophic eukaryotes, sponges, animals.

Human organism as a biological system.

Basics of ecology and evolution.

ENTRANCE EXAM PROGRAMME IN GEOGRAPHY ***(optional subject)***

General Geography: geography as a science, research methods, Earth as a planet (shape, movements), maps and projections, coordinates, time zones, lithosphere, atmosphere, hydrosphere, biosphere, soils.

Continents and Oceans: natural features, zones, distribution patterns.

Geography of Ukraine: location, geology, climate, waters, soils, flora and fauna, landscapes, resources.

Population: demographics, migration, urbanization, ethnic and religious structure, labor resources.

World Economy: economic sectors, industry, agriculture, transport, trade, globalization, international organizations, Ukraine in global economy.

Regions of the World: Europe, Asia, Africa, Americas, Australia and Oceania, global problems, sustainable development.

ENTRANCE EXAM PROGRAMME IN PHYSICS ***(optional subject)***

Mechanics: kinematics, dynamics, conservation laws, work and power, oscillations.

Molecular Physics and Thermodynamics: kinetic theory, ideal gas, internal energy, thermal processes, laws of thermodynamics.

Electrodynamics: electric field, current laws, magnetic field, electromagnetic induction.

Oscillations and Waves. Optics: mechanical and electromagnetic waves, light phenomena, geometric and wave optics.

Relativity and Quantum Physics: basics of relativity, quantum properties of light, atomic structure, nuclear reactions, radioactivity.

ENTRANCE EXAM PROGRAMME IN CHEMISTRY ***(optional subject)***

General Chemistry: basic concepts and laws, atomic structure, periodic law, chemical bonding, amount of substance, solutions, redox reactions, reaction rates, equilibrium.

Inorganic Chemistry: oxides, acids, bases, salts, chemical properties, metals and nonmetals, obtaining substances.

Organic Chemistry: structure theory, hydrocarbons, oxygen-containing and nitrogen-containing compounds, biologically important substances.

Calculations: formulas, reaction equations, mass fraction, solutions.

ENTRANCE EXAM PROGRAMME IN WORLD LITERATURE ***(optional subject)***

Ancient Literature: Homer (*Iliad*, *Odyssey*), Greek tragedy (Sophocles, Aeschylus, Euripides), Roman literature (Virgil, Ovid).

Medieval Literature: chivalric romance, Dante Alighieri (*Divine Comedy*), heroic epics.

Renaissance: William Shakespeare (*Romeo and Juliet*, *Hamlet*), Miguel de Cervantes (*Don Quixote*), Petrarch, Boccaccio.

Classicism and Enlightenment: Molière, Rousseau, Voltaire, Diderot.

Romanticism: Goethe (*Faust*), Byron, Hoffmann, Scott.

Realism (19th century): Balzac (*The Human Comedy*), Dickens, Flaubert (*Madame Bovary*).

Modernism: Kafka (*The Metamorphosis*), Joyce, Proust, Hemingway, Woolf.

20th–21st Century Literature: Camus (*The Plague*), Orwell (*1984*, *Animal Farm*), García Márquez, Eco.