

Syllabus of the academic discipline
«Fundamentals of bioethics and biosafety»

Scope of the academic discipline	3 credits (90 h)
Semester, year of study	II semester, 1 st year
Days, time, place of educational discipline	According to the schedule of classes, Department of Philosophy, Bioethics and Foreign Languages Odesa, 2 Pastera St
Teacher(s)	Khanzhy Volodymyr; D.Sc., professor; head of the department
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Work place	Office of the head of the Department of Philosophy, Bioethics and Foreign Languages Odesa, 2 Pastera St
Consultations	Face-to-face consultations: from 14.00 to 16.00 on Thursday, from 9.00 to 13.00 on Saturday. Online consultations: from 14.00 to 16.00 on Thursday, from 9.00 to 13.00 on Saturday. via Microsoft Teams or Telegram/Viber

COMMUNICATION

Communication with students will be carried out remotely (tel., E-mail) and in person (at the teacher's workplace).

During distance learning, communication is carried out through the Microsoft Teams platform, as well as through e-mail correspondence, Viber messengers (via groups created in Viber for each group, separately through the head of the group).

COURSE ANNOTATION

The subject of study of the educational discipline «Fundamentals of bioethics and biosafety» is the moral problems of humanity that arise in connection with the use of modern biomedical, industrial, agricultural, etc. technologies in various spheres of activity, in particular in the professional activities of doctors and other medical workers.

Course prerequisites and post-requisites

The study of the discipline «Fundamentals of bioethics and biosafety» is provided by the fundamental discipline «Philosophy with a cycle of academic integrity» and is subject-related with the knowledge of social-humanitarian and natural-science disciplines of the 1st year (in particular, «History of Medicine», «Sociology and Medical Sociology», «History of national philosophical thought», «Life safety», «Medical biology»), as well as aimed at the formation and improvement of general scientific and special conceptual apparatus in integration with the discipline «Latin language». At the same time, the study of this discipline ensures the preparation of students of higher education to master such disciplines as «Medical deontology», «Conflictology», «Social medicine. Public health», «Medical psychology», «Anthropology», «Fundamentals of scientific research in medicine», «Extreme and emergency medical care», «Molecular genetic research in clinical medicine», «Medical genetics», «Peculiarities and ethics communication with a sick child and his parents. Practicing communication skills» etc.

The purpose of teaching the educational discipline «Fundamentals of bioethics and biosafety» is to improve the quality of training of a modern doctor in the field of bioethics, which will help the doctor to carry out preventive and curative work at a high professional level in accordance with modern international requirements and conventions in the field of medical law and bioethics.

Course objectives:

1. teach to actively use the categorical apparatus of the bioethics and biosafety course;

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2. to develop the ability to analyze bioethical and ethical-legal problems of using biomedical technologies and the skills of applying relevant norms and principles to solve them;

3. familiarize with the principles of bioethical examination of scientific projects;

4. to develop the skills of appropriate use of international and domestic regulatory documents, legislative acts on bioethics to analyze and solve ethical and legal problems arising in the practical activity of a doctor;

5. teach how to apply the principles of bioethics when conducting clinical and any scientific research;

6. to establish the prerequisites for carrying out professional activities in accordance with the values and principles of bioethics.

Expected results:

As a result of studying the discipline, students should *know*:

- object, subject, main directions, functions, definition of bioethics;
- sociocultural, scientific and philosophical prerequisites for the emergence of bioethics;
- content of the main international and domestic regulatory documents in the field of bioethics;
- functions, structure, powers, role in society of ethics committees;
- modern concept of biosafety and principles of biosafety in Ukraine;
- patterns and main stages of development of bioethics in Ukraine;
- ethical and legal problems, bioethical principles, principles of proper clinical practice when conducting clinical research;
- forms, methods of ethical examination of scientific/clinical research.

Students must *understand*:

- peculiarities of applying the principles of bioethics depending on socio-cultural conditions (American and European models of bioethics);
- peculiarities of applying bioethical principles depending on the field of medical practice: psychiatry, medical genetics, obstetrics and gynecology, neonatology, oncology, infectious diseases, resuscitation, transplantology, etc.;
- bioethical aspects of "traditional" and "non-traditional" medicine, valeology;
- bioethical aspects of experiments on animals;

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- ethical and legal problems of using modern biomedical technologies.

Students must be *able to*:

- use the appropriate thesaurus of the course in the activity;
- build professional activity in accordance with the values and principles of bioethics, the highest international and domestic regulatory standards in the field of bioethics; use international and domestic normative documents, legislative acts on bioethics to analyze and solve ethical and legal issues arising in the practical activity of a doctor;
- apply the principles of bioethics, the principles of proper clinical practice when conducting clinical research and any scientific research;
- obtain the consent of clinical research participants;
- conduct bioethical examination of scientific projects.

Have *skills*:

- analysis of modern bioethical approaches and concepts;
- analysis of ethical and legal problems in the use of biomedical technologies and the application of relevant moral and ethical norms and principles for their consideration and resolution;
- dialogue and discussion on bioethical issues.

COURSE DESCRIPTION

The course will be presented in the form of seminars (30 hours), organization of independent work of students (60 hours); total – 90 hours (3 credits).

The study of the discipline is implemented on the basis of the following teaching methods:

- by dominant means of education: verbal, visual;
- drawing up graphic schemes;
- solving creative tasks;
- testing;
- group discussions on problem situations;
- performance of written tasks;
- individual control interview;
- situational tasks ("case method");
- problematic teaching method;
- «brainstorming» learning method.

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The content of the discipline

Topic 1: Bioethics as modern medical ethics. History of origin, socio-cultural, philosophical, scientific and natural science principles of bioethics. Content and basic concepts of bioethics and nooethics.

Topic 2: Ethical and legal aspects of the beginning and end of human life.

Topic 3: Values and principles of European bioethics. Implementation of the principles of bioethics in medical practice in Ukraine. Code of ethics of a Ukrainian doctor.

Topic 4: Peculiarities of the application of bioethical principles and rules in various fields of medical practice.

Topic 5: Informed consent (history, forms, legal basis).

Recommended literature

1. Capra F., Luisi P.L. The systems view of life: a unifying vision / F. Capra, P.L. Luisi. – Cambridge: Cambridge UP, 2019. – 510 p.
2. Gensler H. Ethics: a contemporary introduction / Harry Gensler / 3 ed. – Bosa Roca: CRC Press Inc, 2017. – 238 p.
3. Handbook of global bioethics / ed. Henk A.M.J. ten Have, Bert Gordijn. – Dordrecht: Springer, 2013. – 1685 p.
4. Lewis M. Medical law, ethics and bioethics for the health professions / M. Lewis. – Pennsylvania: F.A. Davis Company, 2012. – 256 p.
5. Sateesh M.K. Bioethics and biosafety / M.K. Sateesh. – New Delhi: I K International Publishing House Pvt. Ltd, 2013. – 820 p.
6. Zyl V. L. Virtue ethics: a contemporary introduction / Liezl Van Zyl. – London: Routledge, 2018. – 234 p.

Current control is carried out at seminar classes in accordance with formulated tasks for each topic. When evaluating educational activities, preference is given to standardized control methods: oral survey, structured written works, discussions, role-playing games, reports, testing. When mastering each topic for the current educational activity, the student of higher education is given grades on a traditional 4-point scale. The current academic performance is calculated as the average current

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score, i.e. the arithmetic average of all grades received by the student of higher education on a traditional scale, rounded to 2 (two) decimal places, for example 4.75.

Current control.

Student gets '5' if:

the student demonstrates a high enough level of knowledge of the pedagogy; understands the main problem, concepts and theories of pedagogy, has his or her own opinion and is able to defend it with arguments; able to freely use the acquired knowledge in their professional field.

Student gets '4' if:

the student demonstrates proper mastery of the pedagogical knowledge, but there are minor errors that do not significantly change the general course of thought; the student receives a score from the specified range also if in response there is uncertainty in attempts to apply specific general pedagogical concepts or theories to solve specific educational problems, or, conversely, understanding the essence of specific practical tasks in the end does not lead to proper generalization.

Student gets '3' if:

the student's answer is mostly reproductive and devoid of proper understanding, there are significant gaps in knowledge of the basics of pedagogy, confusion in understanding the fundamental general educational questions, the student finds it difficult to give examples that should specify the answer.

Student gets '2' if:

the student is not able to answer questions even at the level of reproductive of materials of the manual or lecture, questions from the teacher that should help are not clear to the student, there is no elementary ability to typify pedagogical concepts and place the pedagogy among other scientific disciplines.

Testing not done. Situational task not completed.

The applicant receives a credit on the condition that he fulfills the requirements of the educational program and has an average score for the current educational activity not lower than 3.00.

Forms and methods of final control.

There is no final control in the discipline «Basics of bioethics and biosafety».

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The obtained average grade for the discipline by multiplying it by 40 (the obtained grade is rounded to whole numbers) is converted into a grade on a 200-point scale, which, in turn, is converted into a traditional grade on a discipline on a 4-point scale.

Average score for the discipline	Evaluation of the discipline on a 200-point scale	Evaluation of the discipline on a 4-point scale (traditional evaluation)
4,62–5,0	185–200	5
3,77–4,61	151–184	4
3,0–3,76	120–150	3

INDEPENDENT WORK OF HIGHER EDUCATION ACQUIRES

Assessment of the independent work of students of higher education, which is provided for the topic along with classroom work, is carried out during the current control of the topic in the corresponding classroom session.

COURSE POLICIES

Deadline and resit policy

Tasks must be completed on time according to the deadline. For untimely completion of the task, the student of higher education receives an unsatisfactory grade. If the student of higher education was absent from classes for any reason, then the practice is carried out within the deadlines set by the teacher in accordance with the Regulations on the Organization of the Educational Process at ONMedU. Reassembly is carried out in accordance with the approved schedule.

Academic Integrity Policy

The policy of the educational component is based on the principles of academic integrity, which is defined in the Regulations, and is determined by the system of requirements that the teacher presents to the student of higher education when studying the educational component:

1. independent performance of educational tasks, tasks of ongoing control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
2. references to sources of information in the case of using ideas, developments, statements, information.

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Attendance and Tardiness Policy

Attendance and work at classroom (seminar) classes is mandatory for obtaining a satisfactory grade. A higher education student is allowed to be late for no more than 10 minutes.

Mobile devices may be used in the classroom only during online classes (in the case of distance learning) or as a source of educational information (with the permission from the teacher), etc.

Behavior in the auditorium or lecture hall

While in the audience, the following values should be cultivated: respect for colleagues; tolerance for others; receptivity and impartiality; argumentation of agreement or disagreement with the opinion of other participants in the discussion, as well as one's own opinion; respecting the dignity of the opponent's personality during communication; compliance with the ethics of academic relationships.