

Year 2025/2026

110407 - Social Morality, Ethics and Deontology

Information about the subject

Degree: Bachelor of Science Degree in Biotechnology

Faculty: Faculty of Veterinary Medicine and Experimental Sciences

Code: 110407 Name: Social Morality, Ethics and Deontology

Credits: 6,00 ECTS Year: 4 Semester: 2

Module: Social and Economic Aspects of Molecular Biosciences and Biotechnology

Subject Matter: Ethics and Professional Deontology Type: Compulsory

Department: Theology, Social Doctrine of the Church and Deontology or Professional Ethics

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

Jose Manuel Hernández Castellón (Responsible jm.hernandez@ucv.es

Lecturer)

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Module organization

Social and Economic Aspects of Molecular Biosciences and Biotechnology

| Subject Matter | ECTS | Subject | ECTS | Year/semester |
|--|------|--|------|---------------|
| Anthropology | 6,00 | Anthropology | 6,00 | 1/2 |
| Social Doctrine of the Catholic Church | 6,00 | Science, Reason and Faith | 6,00 | 2/2 |
| Legal and Economical aspects in Biotechnology | 6,00 | Legal and Economic Aspects of Biotechnology | 6,00 | 4/2 |
| Ethics and Professional Deontology | 6,00 | Social Morality, Ethics and Deontology | 6,00 | 4/2 |
| English | 6,00 | English | 6,00 | 1/2 |



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Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

R1 The student has understood and assimilated the contents of the subject. R2 The student is able to solve problems or case studies related to the subject contents, by using different resources (bibliographic, IT, etc.) R3 The student is able to write an intelligible and organized text on different aspects of the subject. R4 The student is able to present and defend his/her work adequately. R5 The student seeks bibliographic information from different sources and can analyze it with a critical and constructive spirit. R6 The student collaborates with the teacher and his/her peers throughout the learning process; he/she works in a team; treats everyone with respects, is proactive and fulfills the organization rules of the course.



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Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

| BASIC | | | Weig | hting | 3 |
|-------|---|---|------|-------|---|
| | | 1 | 2 | 3 | 4 |
| CB1 | Students acquire and understand knowledge in their field of study based on general secondary education but usually reaching a level that, although supported on advanced text books, also includes aspects involving state-of-the-art knowledge specific to their area. | | | x | |
| CB2 | Students are able to apply knowledge to their work in a professional way and have the competences enabling them to state and defend views and opinions as well as perform problem-solving tasks in their field of study. | | | | X |
| CB3 | Students are able to collect and interpret relevant data (generally in their field of study) and give opinions that involve reflection on relevant social, scientific or ethical issues. | | | | X |
| CB4 | Students can communicate information, ideas, problems and solutions to a specialized or non-specialized audience. | | 1 | X | |
| CB5 | Students develop the necessary learning skills to undertake further studies with a high level of autonomy. | | X | | 1 |

| GENERAL | Weighting |
|--|-----------|
| | 1 2 3 4 |
| CG01 Capacity to analyze and synthesize. | x |

| Weighting | | | | |
|-----------|---|--|--|---|
| 1 | 2 | | | 4 |
| | × | | | |
| | | | | |



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| CE33 | Knowing and complying with legislation and ethics of biotechnological processes and applications. | | X |
|------|---|--|---|
| CE34 | Knowing main characteristics of Molecular biosciences and biotechnology communication. | | |

| TRANSVERSAL | | Weig | hting | l |
|-------------|---|------|-------|---|
| | 1 | 2 | 3 | 4 |
| CT02 | Capacity to organize and plan. | x | | |
| CT03 | Mastering Spanish oral and written communication. | | X | |
| CT05 | Knowing and applying Basic ITC skills related to Biotechnology. | x | | |
| CT06 | Capacity to manage information (capacity to look for and analyze information coming from different types of sources). | 1 | X | |
| CT07 | Problem solving. | X | | |
| CT09 | Capacity to work in interdisciplinary and multidisciplinary team. | | | X |
| CT10 | Interpersonal skills. | | x | |
| CT11 | Understanding multicultural and diverse environment | | X | 1 |
| CT12 | Critical and self-critical capacity. | | X | |
| CT13 | Ethics. | | | x |
| CT14 | Capacity to learn | | x | |
| CT16 | Capacity to produce new ideas (creativity) | | | |
| CT19 | Capacity to apply theoretical knowledge | x | | |
| CT20 | Research skills | x | | |
| CT21 | Sensitivity to environmental issues | x | | |



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Assessment system for the acquisition of competencies and grading system

| Assessed learning outcomes | Granted percentage | Assessment method |
|----------------------------|--------------------|----------------------|
| | 60,00% | Written test |
| | 40,00% | Submission of papers |

Observations

According to the general evaluation and qualification regulations, the preferred evaluation system will be by means of continuous evaluation. Throughout the course, different tasks associated with the contents taught will be carried out to strengthen their learning. These tasks are part of the continuous evaluation, so they cannot be done after the deadline or in the second call. In order to count their score in the final grade, the subject exam must be passed.

The student must pass the written test in order to average with the rest of the assessment elements. The pappers are some briefs abour articles (they must be delivered like tasks) and 5 briefs about 5 lectures about bioethics.

FOR THE ONLINE GROUP AND S GROUP (SECOND ENROLMENT STUDENTS).

The material necessary to follow the course is available on the Platform. The student will be able to follow the course by means of online tutorials. In order to make the final test, the student must submit all the proposed compulsory activities before the established deadline, and must get a "PASS". If the student takes the second chance exam, this does not exempt him/her from the obligation of submitting the activities and submit them during the second chance period. If he/she fails to do so, the student will not be able to pass the course in that academic year.

Finally, according to article 10 of the current assessment regulations, in the event that it is impossible for students enrolled in a face-to-face degree to attend, they may opt for 'single assessment'. This is an extraordinary and exceptional assessment system available to those students who, in a justified and accredited manner, are unable to undergo the continuous assessment system and request it within the first month of each semester, by the means provided for this purpose. The Dean of the Faculty shall decide on the admission of the student's request for a single assessment.

The use of tools based on artificial intelligence (AI) is subject to the teacher's criteria, who may establish specific limits or conditions depending on the training or assessment activity.



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MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with 9 Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge.
- M2 Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity.
- M4 Supervised monographic sessions with shared participation...
- M5 Application of multidisciplinary knowledge.
- M6 Personalized and small group attention. Period of instruction and/or guidance carried out by a tutor to review and discuss materials and topics presented in classes, seminars, readings, papers, etc.
- M7 Set of oral and/or written tests used in initial, formative or additive assessment of the student
- M8 Group preparation of readings, essays, problem-solving, seminars, papers, reports, etc. to be presented or submitted in theoretical, practical and/or small-group tutoring sessions. Work done on the university e-learning.



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M9

Student's study: Individual preparation of readings, essays, problem-solving, seminars, papers, reports, etc. to be presented or submitted in theoretical, practical and/or small-group tutoring sessions. Work done on the university e-learning platform.

IN-CLASS LEARNING ACTIVITIES

| | LEARNING OUTCOMES | HOURS | ECTS |
|--------------------------------------|--------------------|-------|------|
| ON-CAMPUS CLASS _{M1} | R6 | 28,00 | 1,12 |
| PRACTICAL CLASSES M2 | R1, R2, R3, R4, R6 | 26,00 | 1,04 |
| SEMINAR M4 | R4 | 0,60 | 0,02 |
| GROUP PRESENTATION OF ASSIGNMENTS M5 | R1, R3, R6 | 0,60 | 0,02 |
| TUTORIAL M6 | R2, R6 | 4,40 | 0,18 |
| ASSESSMENT M7 | R1, R2, R4, R5, R6 | 2,40 | 0,10 |
| TOTAL | | 62,00 | 2,48 |

LEARNING ACTIVITIES OF AUTONOMOUS WORK

| | LEARNING OUTCOMES | HOURS | ECTS |
|----------------------------|------------------------|-------|------|
| AUTONOMOUS GROUP WORK | R4, R5, R6 | 24,00 | 0,96 |
| AUTONOMOUS INDIVIDUAL WORK | R1, R2, R3, R4, R5, R6 | 64,00 | 2,56 |
| TOTAL | | 88,00 | 3,52 |



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

| Content block | Contents |
|--|---|
| CONCEPTUAL FOUNDATIONS | Moral, ethics, deontology, law. Ethical codes. Fundamental ethical issues. |
| INTRODUCTION TO BIOETHICS | Principles and foundations of Bioethics.Bioethics and legislation. |
| BIOETHICS ISSUES APPLIED TO BIOSCIENCES | Ethics of scientific research. Bioethical aspects of animal experimentation, clinical trials, analysis of human molecular genetics, gene and cell therapy. Embryo experimentation, transgenesis, cloning. |

Organization of the practical activities:

| | Content | Place | Hours |
|------|--|--------------|-------|
| PR1. | SESSIONS OF GROUP WORK IN GROUPS ARE SUPERVISED BY THE TEACHER, | Lecture room | 10,00 |
| PR2. | SIGNIFICANCE CONSTRUCTION OF THE KNOWLEDGE TROUGH THE INTERACTION AND ACTIVITY OF THE PUPIL | Lecture room | 10,00 |
| PR3. | CASE STUDY | Lecture room | 10,00 |



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Temporary organization of learning:

| Block of content | Number of sessions | Hours |
|---|--------------------|-------|
| CONCEPTUAL FOUNDATIONS | 13,00 | 26,00 |
| INTRODUCTION TO BIOETHICS | 8,00 | 16,00 |
| BIOETHICS ISSUES APPLIED TO BIOSCIENCES | 10,00 | 20,00 |

References

BIBLIOGRAPHY:

CICCONE, L., Bioética. Historia, principios, cuestiones (Palabra, Madrid 2005).

POLAINO-LORENTE, A. (Dir.) Manual de bioética general (Rialp, Madrid 1997).

SGRECCIA, E., Manual de bioética, vol. 1 y 2 (BAC, Madrid 2009).

SIMÓN VÁZQUEZ, C. (Dir.), Diccionario de Bioética (Monte Carmelo, Burgos 2006).

TOMÁS GARRIDO, G. M., (Coord.) Manual de Bioética (Ariel, Madrid 2001).

OTHER MATERIALS:

ANDORNO, R., Bioética y dignidad humana (Tecnos, Madrid 1998).

AZNAR LUCENA, J. (Coord.), *La vida humana naciente. 200 preguntas y respuestas* (BAC, Madrid 2008).

BONET, E., PARDO SÁEZ, J.M., Hay un embrión en mi nevera (EUNSA, Pamplona 2007).

CASADO, M., Las leyes de la bioética (Gedisa, Barcelona 2004).

FRANCISCO I, Carta enc. Laudate Si' (2015)

MARTÍNEZ CAMINO, J.A. ¿Qué pasa por fabricar hombres? (Desclée de Brouwer, Bilbao 2002)

RIFKIN, J. El siglo de la biotecnología (Crítica, Barcelona 1999)

SPAEMANN, R. Personas. La diferencia entre algo y alguien (Eunsa, Pamplona 2000); Límires.

Acerca de la dimensión ética del actuar (Eiunsa, Madrid 2003).

LINKS TO BIOETHICS:

Observatorio de Bioética UCV II http://www.observatoriobioetica.org/ Bioética en la red || www.bioeticaweb.com Blog Ética y Bioética ||

www.mercaba.org/Filosofia/Etica/cartel_etica_bioetica.htm Cátedra Bioética UNESCO || www.catedrabioetica.com Con Dignidad || www.condignidad.org Instituto de Consulta y Especialización en Bioética || www.bioeticacs.org