



**UNIVERSITÀ DEGLI STUDI
DELL'INSUBRIA**

**DIPARTIMENTO DI BIOTENOLOGIE
E SCIENZE DELLA VITA**

**TEACHING REGULATIONS OF THE
MASTER'S DEGREE COURSE in BIOLOGY and
SUSTAINABILITY**

a.y. 2024/2025



SECTION I - GENERAL INFORMATION

NAME OF THE DEGREE COURSE (DC)	Biology and sustainability
CLASS	LM-6
TYPE	2-year degree course
COURSE LOCATION	Busto Arsizio - VA
DEGREE COURSE (DC) WEBSITE	For information on the learning objectives of the DC, occupational opportunities, access requirements, admission procedures, expected educational results, curriculum / study plan, final exam, you may refer to the Annual Program Report (DC-APR), published on the course website: https://uninsubria.coursecatalogue.cineca.it/corsi/2023/10274
DEPARTMENT	Biotecnologie e scienze della vita - DBSV (Biotechnologies and Life Sciences - DBSV)
DEGREE COURSE COORDINATOR	Prof. Bruno Enrico Leone Cerabolini
ACADEMIC OFFICE OF THE DEGREE COURSE	The academic office is located in via Dunant, 3 - Varese The Educational Managers receive the students according to a timetable published on the course webpage.
LESSONS TIMETABLE	<p>The course is organized following a semester-based calendar, within the calendar the teaching activities can begin/ end earlier than the dates indicated. Exams sessions are scheduled at the end of the semesters. Students can access the exams only after completing the attendance, although not necessarily in presence.</p> <p>1st SEMESTER: Lectures start date: 23 September 2024 – lessons end date: 13 January 2025; Fall exams session: 11-15 November 2024 (except for 1st-year students); Winter exams session: 20 January 2025 - 21 February 2025.</p> <p>2nd SEMESTER: Lectures start date: 24 February 2025 - lessons end date 13 June 2025; Spring exams session: 10-16 April 2025 Summer exams session: 23 June 2025 - 19 September 2025 (except for August).</p> <p>For the lessons suspension dates and holidays for national, local and other festivities (Christmas break, Easter break, University holidays), students should refer to the University's Academic Calendar approved by the University bodies.</p>



FURTHER INFORMATION	COURSE ACCESS: open-access TEACHING LANGUAGE: English
ADMISSION PROCEDURES	<p>The master's degree in Biology and Sustainability is free access.</p> <p>Candidates need a diploma in the Bachelor's degree classes L-2 Biotechnologies or L-13 Biological Sciences (provided for by D.M. 270/04 or, in equivalent classes 1 or 12 provided for by D.M. 509/99). Alternatively, students can access the course with another qualification, obtained in Italy or abroad, recognized as eligible according to current legislation. In this case, students can be admitted only if they have the following number of credits (CFU):</p> <ul style="list-style-type: none">- at least 12 credits (CFU) in the 01 area of Mathematical and Informatics Sciences, 02 area of Physical Sciences or in the SSD MED/01 (Medical Statistics) of the 06 area of Medical Sciences;- at least 12 credits (CFU) in area 03 of Chemical Sciences or in SSD AGR/13 (Agricultural Chemistry) of area 07 of Agricultural and Veterinary Sciences;- at least 36 credits (CFU) in Area 05 of the Biological Sciences or SSD AGR/03 (General Arboriculture and Tree Cultivation); AGR/04 (Horticulture and Floriculture); AGR/05 (Forest Bedding and Forestry); AGR/06 Wood Technology and Forestry Uses; AGR/07 Agricultural genetics; AGR/11 General and applied entomology; AGR/12 Plant pathology; AGR/15 Food science and technology; AGR/16 Agricultural microbiology; AGR/17 General zootechnics and genetic improvement; AGR/18 Animal nutrition and feeding; AGR/19 Special zootechnics; AGR/20 Zooculture <p>To be admitted to the Master's Degree Programme, students must have an adequate knowledge of English, corresponding at least to level B2 of the Common European Framework of Reference for Languages (CEFR).</p> <p>Candidates will be able to demonstrate that they have such knowledge of the English language, with:</p> <ul style="list-style-type: none">-internationally recognised certification of at least B2 level in the common European framework of reference for language proficiency, obtained during the previous three years (in the case of a certificate obtained within the previous 5 years, to verify proficiency in English, the interview will be held in English);-or an academic qualification (Bachelor's degree, Master) related to a course provided entirely in English. <p>Students without the above documentation will be required to attend the specific pre-course of English that will be delivered in the month of September 2024, passing the relevant exam.</p> <p>Students must be in possession of the curricular requirements before the verification of personal preparation; in particular, the assignment of educational debts or additional educational obligations to students of a master's degree is not allowed.</p> <p>The verification of the curricular requirements and of the personal preparation will be carried out through an interview by a special Commission and will be aimed at verifying the adequacy of the preparation of knowledge relating to the fundamental disciplines mentioned above. Failure to pass the verification precludes access to the Master's Degree Programme.</p>



ORIENTATION, ENROLLMENT PROCEDURES AND OTHER ADMINISTRATIVE ASPECTS	<p>INFOSTUDENTI SERVICE</p> <p>The INFOSTUDENTI service is a web application that offers a communication channel through which students and future students can obtain some useful information by contacting the different offices of the University (Student Services office, Right to Study and Student Services, Orientation and Placement, Academic Offices and International Relations).</p> <p>With this system it will be possible to send questions and receive the relative answers attaching also documents and following the state of your request.</p> <p>At the following link you can access the service:</p> <p>https://www.uninsubria.it/servizi/infostudenti-servizio-informazioni-gli-studenti</p>
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SECTION II - STUDY PLAN

MANDATORY TEACHING ACTIVITIES - 2024/2025 COHORT

Programmed teaching means the set of courses provided for the entire course of study, which must be supported by all students enrolled in the current A.A. (Cohort of Matriculation) to complete the training course and obtain the title.

MANDATORY COURSES:

1st YEAR							
SEM	COURSE Title	MODULE Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	E C T S	HOURS	ASSESSMENT METHOD
I	NATURAL CAPITAL AND SUSTAINABILITY PRINCIPLES	1 Module Animal Resources	BIO/05	B (Disciplines of biodiversity and environment)	6	48	V
II		2 Module Plant Resources	BIO/03	B (Disciplines of biodiversity and environment)	6	5 ECTS frontal teaching = 40 hours 1 ECTS exe = 12 hours	V
A	PROCESS BIOCHEMISTRY		BIO/10	B (Disciplines of biodiversity and environment)	6	5.5 ECTS frontal teaching = 44 hours 0.5 ECTS exe = 6 hours	V
A	CELL BIOLOGY OF LIFE PROCESSES		BIO/06	B (Disciplines of biodiversity and environment)	6	48	V
I	STRESS PHYSIOLOGY AND BIOINDICATION	1 Module Animal Environmental Physiology	BIO/09	B (Disciplines of the biomedical sector)	6	48	V
II		2 Module Plant Environmental Physiology	BIO/04	B (Disciplines of the biomolecular sector)	6	5 ECTS frontal teaching = 40 hours 1 ECTS exe = 12 hours	V



A	BIODATA SCIENCE		BIO/05	B (Disciplines of biodiversity and environment)	6	48	V
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MANDATORY COURSES:

2nd YEAR							
SEM	COURSE Title	MODULE Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
I	HISTORY OF BIOLOGY		M-STO/05	C (Related or supplementary)	6	4 ECTS frontal teaching = 32 hours 2 ECTS workshops = 24 hours	V

OPTIONAL COURSES (CURRICULAR, IN CHOICE/CHOICE BLOCKS):

2nd YEAR							
SEM	COURSE Title	MODULE Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
A CHOICE BETWEEN:							
I	EPIGENETIC AND CONSERVATION		BIO/13	B (Disciplines of nutrition and other applications)	6	48	V
II	SUSTAINABLE CHEMICAL PROCESSES		CHIM/11	B (Disciplines of nutrition and other applications)	6	5 ECTS frontal teaching = 40 hours 1 ECTS exe = 12 hours	V
A CHOICE BETWEEN:							
II	SUSTAINABLE MANAGEMENT OF INVASIVE ANTHROPODS		AGR/11	C Related or supplementary)	6	4 ECTS frontal teaching = 32 hours 2 ECTS esercitazioni = 24 hours	V
II	SUSTAINABLE FOOD PRODUCTIONS		AGR/20	C (Related or supplementary)	6	4 ECTS frontal teaching = 32 hours 2 ECTS lab = 24 hours	V
A CHOICE AMONG:							



I	SUSTAINABLE USE OF PLANT RESOURCES AND BIOMASSES		BIO/03	B (Disciplines in the field of biodiversity)	6	4,5 ECTS frontal teaching = 36 hours 1,5 ECTS exe = 18 hours	V
I	SUSTAINABLE USE OF ANIMAL RESOURCES AND BIOMASSES		BIO/05	B (Disciplines in the field of biodiversity)	6	48	V
II	ANIMAL MODELS: RESOURCES FOR SUSTAINABLE PRODUCTION		BIO/05	B (Disciplines in the field of biodiversity)	6	5 ECTS frontal teaching = 40 hours 1 ECTS exe = 12 hours	V
II	ANTHROPOLOGY AND BIOARCHAEOLOGY		BIO/08	B (Disciplines in the field of biodiversity)	6	48	V
A CHOICE AMONG:							
I	MOLECULAR STRATEGIES OF BIOLOGICAL ADAPTATION		BIO/18	B (Disciplines of the biomolecular sector)	6	48	V
I	INNOVATIVE APPROACHES FOR A SUSTAINABLE PLANT PRODUCTION		BIO/04	B (Disciplines of the biomolecular sector)	6	5 ECTS frontal teaching = 40 hours 1 ECTS exe = 12 hours	V
I	OMICS AND CONSERVATION		BIO/18	B (Disciplines of the biomolecular sector)	6	48	V
A CHOICE AMONG:							
II	HISTORY OF LIFE ON EARTH		GEO/01	C (Related or supplementary)	6	32	V
I	CHEMICAL METHODOLOGIES FOR SUSTAINABILITY	Modulo 1 Sustainable Processes for Biomass Treatment	CHIM/04	C (Related or supplementary)	3	24	V
II		Modulo 2 Alternative Methods in Silico	CHIM/12	C (Related or supplementary)	3	2.5 ECTS frontal teaching = 12 hours 0,5 ECTS exe = 6 hours	V

OTHER MANDATORY COURSES

II ANNO							
SEM	COURSE Title	MODULE Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
I-II	CHOSEN BY THE STUDENT		NN	D (elective)	12		V
II	OTHER USEFUL SKILLS FOR ENTERING THE WORKFORCE		NN	F	3	24	I



ND	FINAL EXAM	PREPARATION OF THE THESIS	PROFIN-S	E/ Language/Final Test	25	PFR: 675	V
		DISSERTAZIONE FINALE		E/ Language/Final Test	2		

*G – ASSESSMENT V – EXAM I – SUITABILITY F – FREQUENCY

I. RULES FOR THE CURRICULUM

SUBSEQUENTIAL RESTRICTIONS ON EXAMS: NOT APPLICABLE

VALIDATION OF LINGUISTIC AND ID CERTIFICATIONS: NOT APPLICABLE

VALIDATION OF PROFESSIONAL ABILITIES OR EXAMS TAKEN IN A PREVIOUS CAREER

Pursuant to article 4, paragraph 4 of the Ministerial Decree 1649/23, the Council of the DC may validate:

- ✓ professional knowledge and skills certified pursuant to current regulations;
- ✓ knowledge and skills developed in educational activities at a post-secondary level in whose organization and implementation the university was involved.

The validation application will be assessed by the Council of the Degree Course. The validation may take place if the activity is related to the specific educational objectives of the Degree Course and of the educational activities for which the validation is being requested, also taking into consideration the content and duration in terms of hours of the activity. The maximum number of ECTS that may be validated is 12.

ATTENDANCE OBLIGATIONS

Attendance is mandatory for lab courses only, for which students must attend at least 75% of the lessons. Mandatory attendance courses must be taken in the correct year. Exceptions to the present norm may be allowed, specifically, in cases of course changes or transfers from another course.

ENROLLING IN SUBSEQUENT YEARS (CAREER BLOCKS)

There are no career blocks

TRANSFER PROCEDURES FROM OTHER DEGREE COURSES

Students coming from other Universities or from other Courses of study of this University, or from previous orders, may request the transfer/passage to the COURSE OF STUDY. Requests for transfer/passage will be evaluated by the Study Course Council which will formulate the recognition of the ECTS on the basis of the following criteria:

- ✓ analysis of the programme carried out
- ✓ evaluation of the adequacy of the disciplinary scientific fields and the contents of the training activities, passed by the student in the previous career, with the specific training objectives of the course of study and the individual training activities provided in the training path.

The above recognition is made in accordance with the provisions of art. 3 paragraphs 11 and 12 of the ministerial decree redefining the classes (19 December 2023). The recognition is carried out up to the competition of ECTS provided by the training course.

RULES FOR THE SUBMISSION OF STUDY PLANS AND INDIVIDUAL STUDY PLANS

Students will have to submit their Study Plan during the first year. It will be possible to modify the study plan in the following year, according to the administrative fulfillments calendar established by the University.

Information on how to submit and compile the Study Plan is available on the Students Services Office website <https://www.uninsubria.it/formazione/consigli-e-risorse-utili/piano-di-studio>

As explicitly provided for by Ministerial Decree 16.03.07, elective educational activities may be chosen among all the courses activated by the University.

It is possible to obtain the degree according to an individual study plan that also includes activities other than those provided for by the teaching regulations, on condition that they are in accordance with the didactic system of the course of study of the academic year of matriculation. The Study Course Council will evaluate the coherence of these chosen activities with the student's educational path. The Degree Course offers a list of courses whose coherence has already been verified.



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MASTER'S DEGREE COURSE in
BIOMEDICAL SCIENCES

For further information and insights please refer to the degree course webpage

<https://www.uninsubria.it/formazione/offerta-formativa/corsi-di-laurea/biologia-e-sostenibilita>