



**UNIVERSITÀ DEGLI STUDI  
DELL'INSUBRIA**

**DIPARTIMENTO DI BIOTECNOLOGIE E  
SCIENZE DELLA VITA**

**TEACHING REGULATIONS OF THE  
MASTER'S DEGREE COURSE in BIOMEDICAL SCIENCES**

**a.y. 2025/2026**



## **Index**

Art. 1 - General features and organization of the Master's Degree in Biomedical Sciences.....	3
Art. 2 – Lessons timetable.....	4
Art. 3 – Admission, assessment of educational background and additional learning requirements (OFA) remedial procedures .....	4
Art. 4 - Orientation, enrollment procedure and other administrative aspects.....	5
Art. 5 - Prerequisites.....	6
Art. 6 – European credit transfer and accumulation system (ECTS).....	6
Art. 7 – Simultaneous enrollment in two study programs.....	6
Art. 8 – Validation of linguistic and IT certifications.....	6
Art. 9 – Validation of professional abilities or exams taken in a previous career.....	6
Art. 10 – Attendance obligations.....	6
Art. 11 – Enrolling in subsequent years .....	6
Art. 12 – Transfer procedures from other degrees courses .....	6
Art. 13 – Rules for the submission of study plans and individual study plans.....	7
Art. 14 – Curricular traineeship .....	7
Art. 15 – Graduation procedures .....	7
ANNEXES	
Annex 1 - Study Plan.....	8



***Art. 1 - General features and organization of the Master's Degree in Biological Sciences***

The course of study, belongs to the class of the Master's Degree in Biology Sciences LM-6 (DM 16 March 2007, reformed according to the DM 19 December 2023) and is activated according to the teaching order of 30/01/2019.

Biomedical sciences are one of the hottest and most dynamic areas of Biology, leading to continuous and exciting progress in scientific knowledge and its applications to human health. In this context, the Master's Degree Program in Biomedical Sciences provides the student with a cutting-edge, advanced, and operative background in the field of biomedical sciences, with an in-depth knowledge of the methodologies, analytical tools and data acquisition and processing techniques that will enable her/him to investigate the molecular, cellular, tissue, and systemic mechanisms underlying physiological and pathological processes to develop new diagnostic and therapeutic approaches. Furthermore, the course helps the students develop their communication skills, which are crucial in any work environment.

The courses are held by scientists actively engaged in high-quality research; the favorable student-teacher ratio and the proximity of the research laboratories to the teaching facilities allow the students to live in close and personal contact with the experimental activities. Many of the courses include laboratory activities, study trips to research centers, and meetings with companies operating in the biomedical field. The students' training is completed by a curricular internship, to be carried out at the University facilities or at research institutes or companies in Italy or abroad (within the framework of Erasmus agreements or other agreements established by the University). Teaching in English encourages the creation of an international, culturally and scientifically stimulating environment.

The course of study is divided into two different curricula. The first (Basic and Applied Biomedical Sciences) is a very flexible and dynamic training course, which includes a wide range of elective courses to allow the students to customize their study plan according to her/his interests and inclinations. Thus, the students can opt for a more in-depth study of the cellular and molecular bases of pathological processes and of the main diagnostic-therapeutic intervention modes, with a special focus on the areas of oncology and neuroscience, as well as develop stronger applied biomedical skills. The Double Degree curriculum mainly focuses on immunological and clinical-applicative aspects; the students admitted to this program will attend their second-year classes and will train to prepare their thesis at the Bonn-Rhein-Sieg University of Applied Sciences, and at the end of the course will obtain the title of Master of Science Degree (MSc) in Biomedical Sciences also from the German University.

To access the degree course candidates must have obtained a Bachelor's degree in Biology or Biotechnology, or an equivalent qualification, in Italy or abroad, and at least 40 credits in basic biological, cellular and molecular, pathophysiological, and pharmacological disciplines. The personal level achieved by the candidates in these areas will be checked via an admission interview. Candidates who cannot submit an official certification English proficiency corresponding to B2 (or higher) in the Common European Framework of Reference for Languages, or who have not attended a first cycle course entirely held in English, will be required to attend an English that will be held by during the month of September), and pass the final exam.

Job opportunities for graduates in BMS can be found in the fields of scientific communication, in the medical management of pharmaceutical and biotechnology companies (as Medical Advisor or Medical Science Liaison), and in laboratories performing clinical, biomolecular, genetic and cytogenetic, microbiological, pharmaco-toxicological, and quality control analyses. Biomedical scientists are also qualified to actively participate in the design and conduction of research projects on biological concepts and theories applied to the biomedical field, as well as in the dissemination of the achieved results across the scientific community.

The degree also provides access to doctoral programs in the fields of Biology and Biomedicine, to various specialization schools in the Biomedical area, and to the state exam for qualification as a biologist.



Lessons are held in English.

The teaching structure responsible for the course is the DEPARTMENT OF BIOTECHNOLOGY AND LIFE SCIENCES

The Chair of the course is Professor TIZIANA RUBINO

<https://uninsubria.unifind.cineca.it/get/person/031751>

The academic office and the other offices of the University (Student Services office, Right to Study and Student Services, Orientation and Placement, Academic Offices and International Relations) may be contacted through the Infostudenti Service: [www.uninsubria.it/infostudenti](http://www.uninsubria.it/infostudenti) (in Italian).

For questions on the degree course, students may also contact Servizio di Ascolto Manager Didattici per la Qualità - DBSV (in Italian)

### ***Art. 2 – Lessons timetable***

The course is organized following a semester-based calendar. Exams sessions are organized during the teaching activities suspension periods students may access the exams provided for in their study plan after having followed the course (attendance acquisition).

#### 1st SEMESTER:

- Lessons start date: from 22 September 2025 - lessons end date: 16 January 2026;
- Fall exams session: 10-14 November 2025 (except for 1st-year students);
- Winter exams session: 19 January 2026-20 February 2026.

#### 2nd SEMESTER:

- Lessons start date: 23 February 2026 - lessons end date: 19 June 2026;
- Spring exams session: 8-14 April 2026;
- Summer exams session: 22 June 2026 to 18 September 2026 (except for the month of August).

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 at the following link:

<https://www.uninsubria.eu/about-us/how-find-us/academic-calendar>

### ***Art. 3 Admission, assessment of educational background and additional learning requirements (OFA) remedial procedures***

Candidates need a diploma in the Bachelor's degree classes L-13 (Biological Sciences) or L-2 (Biotechnologies), or an equivalent first-level title obtained in Italy or abroad, according to current regulations. In this case, having obtained at least a total of 40 ECTS in the following academic field represents a curricular prerequisite to access the course: BIO/6 (Comparative Anatomy and Cytology), BIO/09 (Physiology), BIO/10 (Biochemistry), BIO/11 (Molecular Biology), BIO/12 (Clinical Biochemistry and Clinical Molecular Biology), BIO/13 (Applied Biology), BIO/14 (Pharmacology), BIO/16 (Human Anatomy), BIO/18 (Genetics), BIO/19 (Microbiology), MED/03 (Medical genetics), MED/04 (General Pathology), MED/06 (Medical Oncology), MED/07 (Microbiology and Clinical Microbiology). Candidates will need to have obtained the first-level title by 31 December 2025 in order to access the degree course.

After the positive assessment of the curricular prerequisites, the candidates will have to take an individual background assessment interview with a specific committee, made up of the lecturers appointed by the



Council of the Degree Course, on the topics related to the basic principles of physiology, pharmacology, molecular and cellular biology and biochemistry (for the list of the main topics of the interview please see the DC webpage). The interviews will take place in September 2025, following the calendar published on the DC webpage. A negative assessment in the interview entails the exclusion from the master's degree course for the current year.

The candidates will also have to demonstrate an adequate knowledge of the English language, documented by:

- an internationally recognized certification of at least a B2 level in the Common European Framework of Reference for Languages obtained in the previous three years
- or the attainment of an academic title (first-level degree, Master) for a course taught entirely in English.

Students without the abovementioned documents will have to attend a specific English pre-course, which will be offered in September 2024, and pass the related exam.

Non-EU students: the access procedure consists of two steps:

all candidates from extra EU countries shall pre-apply by filling in this form:

[https://docs.google.com/forms/d/e/1FAIpQLSfDITshKj6hzyozdviiOOOfKJLAry21UMtUk1s2nYhyaDM0MkQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfDITshKj6hzyozdviiOOOfKJLAry21UMtUk1s2nYhyaDM0MkQ/viewform?usp=sf_link)

from December 1st 2025 to May 31st 2026.

Candidates must have documented knowledge in the areas of biochemistry, molecular biology, genetics, pharmacology, and immunology.

Potentially suitable candidates based on the submitted documents will be asked to take a Skype interview with a committee appointed by the Degree Program Board, aimed at verifying their preparation in the areas of pharmacology, immunology, molecular and cellular biology, genetics and biochemistry. In case one/two of the above five topics is not part of the first-level Degree Course, the student will be asked to fill in this gap prior to the admission interview. A negative outcome of the interview will preclude access to the Course for the current year.

Only admissible candidates will have to pre-enroll on the University portal by the deadline published every year on the International students residing abroad | University of Insubria (uninsubria.it) website. The validation on the part of the University of the pre-enrollment carried out by students on the University portal will be automatically sent to the relevant diplomatic representatives, who will start the assessment procedures to issue the visa. At the same time, students should pre-register to the Course following the online procedure (Esse3) published on the University's website

#### ***Art. 4 Orientation, enrollment procedure and other administrative aspects***

Incoming orientation:

The Degree Course organizes every year, in the spring/summer period, some course presentation and incoming orientation meetings for future freshmen. Informational material is published online and distributed to interested students. The admission procedures are published every year on the webpages of the Degree Course and of the student's services office. Further information (for example on the curriculum, enrollment procedures) may be obtained through the Infostudenti service.

#### **INFOSTUDENTI SERVICE**

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).

The service may be accessed by clicking on the following link: InfoStudenti

<https://www.uninsubria.eu/services/all-services/infostudenti-information-service-students>



***Art. 5 - Prerequisites***

Not applicable.

***Art. 6 – European credit transfer and accumulation system (ECTS)***

The courses have different types of assisted teaching: frontal lessons, exercises and workshops.

Each ECTS corresponds to 8 hours of classroom teaching, 12 hours of laboratory and 12 hours of exercises.

***Art. 7 – Simultaneous enrollment in two study programs***

Starting from the academic year 2022-2023, students are allowed to simultaneously enroll in two study programs, in accordance with Law n. 33 of April 12, 2022 (Provisions on simultaneous enrollment in two higher education programs) and the subsequent ministerial decrees (DM 930/2022 and DM 933/2022). Requests for dual enrollment will be evaluated by a dedicated commission of the study program, following the verification of the admission requirements.

***Art. 8 – Validation of linguistic and IT certifications***

Not applicable.

***Art. 9 – Validation of professional abilities or exams taken in a previous career***

Pursuant to article 4, paragraph 7 of the Ministerial Decree 1648/23, the Council of the Degree Course 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.

***Art. 10 – Attendance obligations***

Attendance is mandatory for workshop courses only, for which students must attend at least 75% of the lessons, and for Job Orientation activities. 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.

***Art. 11 – Enrolling in subsequent years***

There are no career blocks to enroll in the second year of the Basic and Applied Biomedical Sciences Curriculum; for the double degree curriculum please see the specific paragraph.

***Art. 12 – Transfer procedures from other degrees courses***

Students from other Universities or from another Degree Course of the University of Insubria, or from previous systems, can apply for a transfer/change to the DEGREE COURSE. Transfer/change applications will be assessed by the Council of the Degree Course, which will proceed to the validation of the ECTS according to the following criteria:

- analysis of the curriculum;
- assessment of the adequacy of the academic fields and of the contents of the activities undertaken by the student in their previous career, with regard to the specific educational objectives of the degree course and of the individual educational activities provided for in the curriculum.



The abovementioned validation is carried out as provided for in article no. 3, paragraphs 8 and 9 of the ministerial decree of Class redefinition (16 March 2007). The validation is carried out until the ECTS provided for by the curriculum are reached

***Art. 13 – Rules for the submission of study plans and individual study plans***

Students will have to submit their Study Plan during the first year and choose the curriculum. 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: study plan submission.

Students who choose the Double Degree curriculum: first-year students are admitted to the curriculum with reservation, as described below. At the end of the first semester of the first year, students excluded from the Double Degree curriculum will have to submit a study plan change to the Students Services Office, indicating the curriculum variation, which will be effective immediately.

As explicitly provided for by Ministerial Decree 16.03.07, elective educational activities may be chosen among all the courses activated by the University. The Council of the Degree Course will assess the coherence of these elective activities with the student's educational curriculum.

The Degree Course offers a list of courses whose coherence has already been verified

***Art. 14 – Curricular traineeship***

The educational curriculum is completed by a curricular traineeship of at least nine months for students of the Basic curriculum and of at least five months for students of the DD curriculum. The traineeship project will deal with topics related to the biomedical field and will be carried out at a university or external facility, even abroad, provided that it is affiliated with the University. The traineeship is a prerequisite for the preparation of the final thesis. The choice of the facility in which to carry out the traineeship and of the traineeship project must be submitted to the internship committee and will be assessed and approved by the Council of the Degree Course

***Art. 15 Graduation procedure***

The final exam for the obtainment of the qualification and its assessment consists in the preparation and discussion of a thesis elaborated in an original manner by the student, under the supervision of a tutor, at the end of an internship period. The thesis will have to be written and discussed in English.

Students who follow the double degree curriculum will have to take a final exam also at the partner University, following the provisions of the related regulations, before taking the final exam at our university.

The graduation sessions dates and relative deadlines are published on the website.

**For further information please refer to the degree course webpage:**

<https://www.uninsubria.eu/course-catalogue/course-list/degree-programs/biomedical-sciences>

**For students with disabilities and/or specific learning disorders, please visit:**

[www.uninsubria.it/studentidisabilidsa](http://www.uninsubria.it/studentidisabilidsa) (in Italian)

**ANNEXES**

Annex 1 - Study Plan



**STUDY PLAN**

**MANDATORY COURSES:**

**1st YEAR**

SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
II	ADVANCED AND QUANTITATIVE GENETICS	ADVANCED AND QUANTITATIVE GENETICS - ModuleI: Human Genetics and Genomics	BIO/18	B (Biomolecular field disciplines)	6	48	M
II	ADVANCED AND QUANTITATIVE GENETICS	ADVANCED AND QUANTITATIVE GENETICS - ModuleII: Quantitative Genetics	BIO/18	C (Related or supplementary disciplines)	4	32	M
I	PHARMACOLOGY	PHARMACOLOGY - Module I - Pharmacology and Chemotherapy	BIO/14	B (Biomedical field disciplines)	6	48 (40+8 SEM)	M
II	PHARMACOLOGY	PHARMACOLOGY - Module II – Neuropsychopharmacology	BIO/14	B (Biomedical field disciplines)	6	50 (44+6 WRK)	M
I-II	ADVANCES IN BIOMEDICINE		BIO/13	B (Nutrition field and other applications disciplines)	10	82 (76+6 WRK)	M
I	EPIGENETIC CONTROL OF GENE EXPRESSION		BIO/11	B (Biomolecular field disciplines)	6	52 (40+12 WRK)	M
I	PATHOLOGY		MED/04	B (Biomedical field disciplines)	6	48	M
I	CELLULAR BIOCHEMISTRY AND PROTEOMICS		BIO/10	B (Biomolecular field disciplines)	6	52 (40+12 WRK)	M
II	ELECTIVE FROM THE PROPOSED LIST			B	6		M
II	ELECTIVE FROM THE PROPOSED LIST			C	6		M

**2nd YEAR**

SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
I	IMMUNOPATHOLOGY		MED/04	B (Characterizing of the biomedical field)	6	48	M
ND	ELECTIVE (STUDENTS ARE ADVISED TO CONSULT THE PROPOSED COURSES LIST)		NN	D	8		M
I	ELECTIVE 1 CURRICULAR (SEE PROPOSED COURSES LIST)			C	8		M



ND	CURRICULAR TRAINEESHIP		NN	F (Other)	30	750	A
A	JOB ORIENTATION		NN	F (Other)	1	8 SEM	A
ND	FINALEXAM		NN	E	5	40	M

## OPTIONAL COURSES

1st YEAR							
SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
6 ECTS AMONG THE FOLLOWING COURSES:							
II	CLINICAL CHEMISTRY		BIO/12	B (Biomedical field disciplines)	6	48	M
II	NEUROANATOMY AND NEURODEVELOPMENT		BIO/16	B (Biomedical field disciplines)	6	48	M
II	NOVEL ANTICANCER THERAPIES		BIO/14	B (Biomedical field disciplines)	6	48	M
6 ECTS AMONG THE FOLLOWING COURSES:							
II	CELLULAR AND MOLECULAR ONCOLOGY		BIO/13	C (Related or supplementary)	6	48	M
II	CLINICAL MICROBIOLOGY AND VIROLOGY		MED/07	C (Related or supplementary)	6	48	M
II	PATHOPHYSIOLOGY OF THE NERVOUS SYSTEM		BIO/09	C (Related or supplementary)	6	50 (44+6 WRK)	M

## OPTIONAL COURSES

### 2nd YEAR

**THE FOLLOWING COURSES ARE OPTIONAL AND MAY BE CHOSEN ONLY ONCE FOLLOWING THIS PROCEDURE:**

- 8 ECTS for Type of Teaching Activity D (as an alternative, students can propose other courses which will have to be approved, see Study plan submission rules)
- 8 ECTS for Type of Teaching Activity C

SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
I	ANIMAL MODELS AND TECHNIQUES IN BIOMEDICAL RESEARCH		BIO/05	C (Related or supplementary)	4	36 (24+12 WRK)	M
I	BIOETHICS		MED/43	C (Related or supplementary)	4	32	M
I	CLINICAL TRIALS IN PHARMACOLOGY		BIO/14	C (Related or supplementary)	4	32	M



I	NEUROBIOLOGY AND THERAPY OF ADDICTION		BIO/14	C (Related or supplementary)	4	32	M
I	PRINCIPLES OF NUTRACEUTICS AND CANCER CHEMOPREVENTION		BIO/13	C (Related or supplementary)	4	32 (28 + 4 SEM)	M
I	RNA-BASED EXPERIMENTAL APPROACHES		BIO/11	C (Related or supplementary)	4	40 (16+24 WRK)	M
I	SYSTEMS BIOLOGY		BIO/10	C (Related or supplementary)	4	36 (24+12 EXE)	M

The activation of Optional Courses of the second-year block will be established every year by the Council of the Degree Course.

**Double Degree CURRICULUM MANDATORY COURSES:**

**1st YEAR**

SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
I-II	ADVANCES IN BIOMEDICINE		BIO/13	B (Nutrition field and other applications disciplines)	10	82 (76+6 WRK)	M
II	HUMAN GENETICS AND GENOMICS		BIO/18	B (Biomolecular field disciplines)	6	48	M
I	PHARMACOLOGY AND CHEMOTHERAPY		BIO/14	B (Biomedical field disciplines)	6	48	M
I	EPIGENETIC CONTROL OF GENE EXPRESSION – Double Degree		BIO/11	B (Biomolecular field disciplines)	7	64 (40+24 WRK)	M
I	PATHOLOGY		MED/04	B (Biomedical field disciplines)	6	48	M
I	CELLULAR BIOCHEMISTRY AND PROTEOMICS – Double degree		BIO/10	B (Biomolecular field disciplines)	7	64 (40+24 WRK)	M
II	CLINICAL CHEMISTRY		BIO/12	B (Biomedical field disciplines)	6	48	M
II	CLINICAL MICROBIOLOGY AND VIROLOGY		MED/07	C (Related or supplementary disciplines)	6	48	M
II	PATHOPHYSIOLOGY OF THE NERVOUS SYSTEM		BIO/09	C (Related or supplementary disciplines)	6	50 (44+6 WRK)	M

**2nd YEAR**

SEM.	COURSE Title	MODULES Title	Academic field	DISCIPLINARY FIELD / Type of Teaching Activity	ECTS	HOURS	ASSESSMENT METHOD
ND	ADVANCED CLINICAL IMMUNOLOGY I		MED/04	B (Biomedical field disciplines)	6		M
ND	CLINICAL APPLICATION	Module I: Monitoring Clinical Trials	BIO/14	B (Biomedical field disciplines)	8		M
ND	CLINICAL APPLICATION	Module II: Medical Proteomics	BIO/12	B (Biomedical field disciplines)	8		M



ND	ADVANCED CLINICAL IMMUNOLOGY II		MED/04	D (elective)	2		M
ND	SPECIAL FIELDS IN BIOLOGY		ND	D (elective)	6		M
ND	CURRICULAR TRAINEESHIP		ND	F (Other)	24		A
ND	FINALEXAM		ND	E	6		