

Faculty of

**Medicine and Surgery "Agostino
Gemelli" - Roma**

**Mathematical, Physical and Natural
Sciences - Brescia**

Master's degree programme in

**Innovations in Biotechnology
applied to regenerative medicine**

LM-9



Student guidebook

A.Y. 2025/2026

Seat: Fondazione Poliambulanza Istituto Ospedaliero (CREM)-BRESCIA



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

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INTRODUCTION

Dear Student,

I would like to warmly welcome you to the family of Università Cattolica del Sacro Cuore, a university that has always placed the future of the new generations at the heart of its mission, relying on the power of education and culture.

For over a century, our university has had faith in young people. Father Gemelli, our founder, used to firmly repeat this in his speeches. In particular, I like to recall this passage from his speech at the inauguration ceremony of the 1951/52 academic year: 'I am convinced [...] that we must trust the young, we must help them, we must follow them, understand them'.

A trust, therefore, that requires us to provide you with a university experience capable of accompanying you in your professional, cultural and personal growth. One of the aims of the programmes we offer - the quality of which is internationally recognised - is to educate you to adopt a long and integral view. In fact, the degree programmes are characterised not only by the solidity of the contents, but also by an implicit innovativeness, which takes into account the continuous transformations of both society and the world of work, thanks above all to an interdisciplinary approach.

Our activities are carried out with the priority of caring for each enrolled student and enhancing their experience in beautiful, hospitable, functional and technologically-advanced spaces. As of this year, the San Francesco Campus in Milan has been added to the historical premises. An area that once housed a barracks from the Napoleonic era, itself built on an old Franciscan convent from the 14th century, is now available to students. It is an investment in the future, in your future.

Every day, we professors and lecturers are called upon to impart knowledge, skills and methods to you - often dealing with frontier issues - in the wake of a century-old tradition that emphasises ethical aspects, develops critical thinking and takes care of the relational dimension. The educational objective we propose is geared towards bringing into dialogue multiple intelligences - those of the head, heart and hands - to allow you to cultivate your talents in the best possible way. Attention to the person, the alliance between generations, and the desire to devise new paradigms to understand the changes taking place are the fundamental components of our identity, which we intend to preserve, nurture and renew.

Università Cattolica is an educating community open to continuous confrontation with the reality that surrounds it. This also requires a direct commitment on your part, because to understand what is happening in the world, classroom lectures are not enough. We are able to offer you internships, study abroad periods and volunteer work experiences. These are all enriching opportunities. And so are the experiences in representative bodies, in the work of student associations, in the organisation of meetings and initiatives. The active participation of students in the life of the university is a hallmark that we want to preserve and strengthen.

The guide you are currently consulting provides you with the necessary information relating to the degree programme you have enrolled in. Course syllabi and updates on the University's initiatives can be found on the website:

<https://roma.unicatt.it/facolta/medicina-e-chirurgia?rdeLocaleAttr=it>

To make you feel myself even closer to you, I would like to reiterate my availability to receive and meet on a regular basis with those who want to have a moment of dialogue and confrontation with the aim of grasping and interpreting your needs and proposals.

I hope that your university journey will be full of enthusiasm and satisfaction, urging all of you not to stop in the face of difficulties but to move forward with the confidence, hope, commitment and effort necessary for the coming goals.

Be proud to be part of the great family of Università Cattolica del Sacro Cuore and to contribute to writing its history.

The Rector

Elena Beccalli

NATURE AND AIMS OF UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Article 1.2 of the Statutes of the University states that “*Università Cattolica is an academic community which facilitates the carrying out of studies, of scientific research and the training of young people for careers in research, teaching, public and private office, and in the liberal professions. Università Cattolica accomplishes these aims through dedicated higher education, and through teaching informed by Christian principles, which respect individual freedom to access all fields of knowledge and are in accordance with the concept of science as being at the service of mankind, conducive to respectful coexistence, and conforming to the principles of Catholic doctrine, in line with the universal nature of Catholicism and its specific call for freedom*”¹.

The Catholic nature of the University and its connection to the Catholic Church mean that research and teaching in all fields of knowledge, especially with respect to the great questions of our time, are approached with rigorous scientific method and intellectual depth. Research is carried out against a background of Christian values and towards human and Christian development of society. This has allowed the University to establish itself as a home for honest dialogue and lively debate with other cultures.

All those who wish freely to accept becoming part of Università Cattolica are expected to be aware of the scientific and educational aims of the University as set out above and to be committed to embracing them and putting them into practice. It is expected that such awareness will be translated into students’ personal conduct and into sincere, diligent collaboration with all of the University staff, thereby avoiding any conduct not conforming to the guiding values and principles of the University.

The University’s Code of Ethics was published on 1st November 2011 was set down in order to reflect a sense of belonging, with the aim of strengthening fundamental values and principles, and defining effective rules and guidelines for the conduct of all those who work and study at the University — professors, academic staff, students, and technical, administrative and services staff. Compliance with the Code of Ethics is an essential part of the mission, the prestige and the reputation of Università Cattolica. The Code of Ethics is available for reference on the University website at <https://www.unicatt.it/ateneo/universita-cattolica/codice-etico-e-modello-di-organizzazione--gestione-e-controllo.html> and on iCatt.

¹ Article 1.2 of the Statutes, approved by Rectoral Decree dated 24 October 1996. The university was legally recognized by Royal Decree No. 1661 of 2nd October 1924.

GOVERNANCE - ACADEMIC

Rector

The Rector is the University's highest academic authority and legally represents the institution. The Rector calls and chairs meetings of the Board of Directors, the Executive Committee, the Academic Senate and the Advisory Board. He/She encourages the convergence of the operations of all parts of the university community towards the aims of Università Cattolica. The Rector may appoint one or more Pro-Rectors, who may be delegated to specific functions, and one Pro-Rector may be appointed to deputise for the Rector. The Rector's mandate is for four years, renewable for no more than two consecutive terms.

The current Rector is Prof. Elena Beccalli, Full Professor of Economics of financial intermediaries at the Faculty of Banking, Financial and Insurance Sciences.

Pro Rector

The current Vice-Rector is Professor Anna Maria Fellegara, full professor at the Faculty of Economics and Law, to which the deputy functions have been assigned

Academic Senate

The Academic Senate is made up of Faculty members and is chaired by the Rector. The Academic Senate deliberates on issues involving scientific/academic matters which affect the university. The Academic Senate may establish degree programmes and has overall responsibility for the planning and coordination of teaching and research activities.

Faculty Dean

The Dean is selected by nomination and election. Full Professors in the faculty are eligible for nomination and all Full Professors in the faculty are eligible to vote. The Rector formally appoints the Dean. The term of office for Deans is four years, renewable for no more than two consecutive terms. The current Dean of the Faculty of Medicine and Surgery is Professor Alessandro Sgambato.

Faculty Board

The Faculty Board is made up of all Full Professors, Associate professors, representatives of course professors, assistant professors, and student representatives. The Board undertakes planning, organisation and supervision of teaching and proposes amendments to academic regulations, in accordance with the university Statutes.

GOVERNANCE – ADMINISTRATIVE

Board of Directors

The Board of Directors is vested with the broadest powers of ordinary and extraordinary administration of the University. The Board is made up of eighteen members: the Rector (who also acts as Chair); ten members appointed by the *Istituto Giuseppe Toniolo di Studi Superiori*; a representative of the *Holy See*; a representative of the *Italian Bishops' Conference*; a representative of the Italian government; a representative of the lay organization *Azione Cattolica Italiana*; and three Full Professors from the University campuses elected by Full Professors and Associate Professors.

General Manager

The General Manager is the head of the University's offices and services and directs and coordinates their activities. He oversees the direction, management and control of non-academic staff and personnel. Other responsibilities include ensuring compliance with legislation and university regulations, and implementing resolutions deliberated by University bodies in line with the University Statute. The appointment of the General Manager is confirmed by the Board of Directors following a proposal by the Rector. The current General Manager is Dott. Paolo Nusiner.

Campus Manager

The Campus Manager is responsible for the management of local operations and achieving the objectives within the General Manager's overall planning and coordination of activities and as set down by the Board of Directors. Appointment of the Campus Manager is confirmed by the Rector following a resolution by the Board of Directors on the basis of a proposal put forward by the General Manager. The current Campus Manager for the Rome Campus is Dott. Lorenzo Maria Cecchi.

PASTORAL SERVICES

General Ecclesial Assistant

Spiritual guidance and pastoral activity within the University community are coordinated by the General Ecclesial Assistant and undertaken with the support of staff who provide individual assistance for personal and spiritual growth. The General Ecclesial Assistant is also responsible for coordinating the activities of the University Pastoral Board and organizing Theology courses.

The current Ecclesial Assistant is H.E. Mons. Claudio Giuliodori.

University Pastoral Board

The University Pastoral Board fulfils an advisory role and shares ecclesiastical responsibility for the proper implementation of the objectives of the campus ministry.

With representatives from all parts of the University among its members, it ensures that the voice of the student and faculty community is heard.

Pastoral Centres

There are pastoral centres on all campuses which operate according to an educational approach based on the principles of Christian values and the centrality of the person. The centres manage the celebration of the Liturgy and provide a space for interaction, discussion, prayer and training. Pastoral assistants are available to meet with students and facilitate dialogue with them directed towards human and spiritual growth. Ecclesial associations and movements collaborate with the pastoral centres, as do prayer and voluntary groups: all bring their own charismatic nature which contributes to the shared commitment to educating, providing witness and to an evangelizing mission.

In order to coordinate the work of the College of Theology Teachers, the Council of Teachers of Theology is established, made up of the twelve teachers who take part in the faculty councils, assisted by a secretary.

Board of the Professors of Theology

Chaired by the Rector and coordinated by the General Ecclesial Assistant, this Board brings together all faculty members teaching Theology at Università Cattolica and has the task of streamlining the organization of theology courses, which are so important in the life of the University: by their very nature, the courses play “a particularly important role in the search for a synthesis of knowledge as well as in the dialogue between faith and reason.” (*Ex Corde Ecclesiae*, 19).

ACADEMIC PROGRAMMES

NATURE AND AIMS OF UNIVERSITÀ CATTOLICA DEL SACRO CUORE

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² Article 1.2 of the Statutes, approved by Rectoral Decree dated 24 October 1996. The university was legally recognized by Royal Decree No. 1661 of 2nd October 1924.

HISTORY OF THE FACULTY OF MEDICINE AND SURGERY “AGOSTINO GEMELLI”

Established by Presidential Decree n. 754 dated 18th June 1958, the Faculty opened in 1961/1962 academic year. Its headquarters are in Rome, in accordance with the wish expressed by Pope Pius XI in 1934 when donating the Monte Mario property to the Istituto Giuseppe Toniolo di Studi Superiori, the founder body and guarantor of Università Cattolica del Sacro Cuore. This wish was reiterated by Pope Pius XII in 1958, at the time of the mass celebrated to mark the fiftieth anniversary of the ordination and eightieth birthday of Father Agostino Gemelli, founder and first Rector of Università Cattolica, who from the beginning of the university aspired to include a Faculty of Medicine because:

“Catholics are increasingly aware of the need for doctors who are informed by Christian values in the exercise of their profession, i.e., doctors with a spirit educated to observe Christian rules who thus see patients as unhappy brothers in need of help.” (Perchè i cattolici italiani aspirano ad avere una Facoltà di Medicina, Vita e Pensiero, 1958).

In line with the overall aim of Università Cattolica del Sacro Cuore, the Faculty of Medicine and Surgery seeks to produce scientifically and technically qualified graduates who can apply a Christian anthropological dimension to their profession. The Faculty aims to achieve this by creating, through its academic offerings and structural organization, an environment of work and study in which the scientific and religious views of the world merge cohesively, in the search for Truth and in interpreting the human experience as a whole.

INNOVATIONS IN BIOTECHNOLOGY APPLIED TO REGENERATIVE MEDICINE (LM-9)

Course Title	Innovations in Biotechnology applied to regenerative medicine
Graduate class	LM-9
Mode of access	Local programmed access <i>ex art.</i> 2, paragraph 1, lett. a) L. No. 264/1999
Faculty	Faculty of Medicine and Surgery "Agostino Gemelli" Faculty of Mathematical, Physical and Natural Sciences
Location	Fondazione Poliambulanza Istituto Ospedaliero (Centro di Ricerca Eugenia Menni, CREM) Via Leonida Bissolati, 57 - Brescia
Course Coordinator	Prof.ssa Ornella Parolini e-mail: ornella.parolini@unicatt.it

TRAINING OBJECTIVES

In accordance with the qualifying educational objectives of Class LM-9, the degree program aims to train professionals equipped with solid scientific and professional knowledge and skills in the field of biotechnologies applied to tissue regeneration. Graduates of the program will possess a professional profile oriented both towards translational research and industrial technological development, with a high level of international competitiveness in the field of regenerative medicine.

These competencies will build upon the foundations of basic biological research and focus on advanced biotechnologies in regenerative medicine and tissue engineering. The program provides a multidisciplinary scientific education that integrates theoretical knowledge with practical skills, supported by a high level of scientific and technological advancement.

The expected learning outcomes are as follows:

- Comprehensive understanding of stem cell biology: from fundamental knowledge to procedures for isolation, culturing, use of specific instrumentation, and principles underlying their therapeutic applications;
- Understanding of the clinical applications of stem cells in regenerative medicine;
- Knowledge of the fundamentals of pathological processes related to tissue degeneration, with reference to the involved cellular and molecular mechanisms;
- Knowledge of the mechanisms underlying tissue regeneration, with particular attention to emerging technologies in the field;
- Cross-disciplinary knowledge of innovative strategies in tissue engineering, from tissue biomechanics to the use of biomaterials, 3D printing, and nanotechnologies;
- Knowledge of the ethical aspects of basic and preclinical stem cell research and related to clinical trials;
- Proficiency in biostatistical and bioinformatic methodologies for the organization, development, and access to genomic and proteomic databases, as well as for the acquisition and dissemination of scientific and technological information;
- Understanding of the regulatory aspects related to Advanced Therapy Medicinal Products (ATMPs), including production processes, commercialization, costs, sustainability, and approval procedures;
- Knowledge of basic and advanced analytical techniques and laboratory practices.

To achieve the aforementioned educational objectives, the following learning areas have been identified:

- Biotechnology for the study and applications of stem cells
- Advanced biotechnologies for regenerative medicine and tissue engineering

- Biotechnology for the development of experimental models and clinical applications
- Regulatory, economic, technology transfer aspects, and soft skills.

The expected learning outcomes, expressed according to the Dublin Descriptors, are as follows:

a) Knowledge and understanding

Graduates will demonstrate to have acquired profound knowledge in the field of regenerative medicine and its innovative aspects in order to develop and apply original ideas in scientific research.

Graduates will be able to comprehend different aspects of tissue degeneration and regeneration, and the processes involved, in order to face the current and future challenges in this field.

Graduates will therefore be able to master the scientific foundations of biotechnology applied to regenerative medicine, demonstrating knowledge and understanding of:

- Biology of stem cells and their secretome
- Causes and the molecular and cellular phenomena related to tissue degeneration and regeneration
- Tissue response to exogenous, physiological, and pathological stimuli
- Advanced experimental models for in vitro tissue regeneration studies
- Crucial aspects for in vivo testing, such as knowledge of appropriate models applied in regenerative medicine and ethical aspects related to animal testing
- Applications of regenerative medicine in a broad spectrum of human diseases
- Fundamental elements of biostatistics
- Innovative aspects of tissue engineering and the multiple technological tools needed for its development, including bioinformatics for "omic" profile analysis and microscopic, ultramicroscopic, and functional image analysis techniques
- Ethical aspects associated with the study and use of stem cells and in general related to regenerative medicine, both in preclinical studies and clinical trials
- Regulatory aspects related to the development and production of ATMPs.

The teaching methods adopted in the program include a strong emphasis on practical activities and individual studies, which allow students to develop independent skills, also fostered by continuous interaction with lecturers, teaching assistants, tutors, and renowned scientific experts involved in seminar activities.

In particular, during laboratory-based practical sessions, students acquire the ability to master a wide range of advanced technologies used in the study of stem cells, including their phenotype and molecular profiles, as well as their application in tissue engineering to develop innovative solutions in regenerative medicine. These technologies span a broad spectrum of applied biology, such as multi-omic analyses of cells and biological fluids, microscopic and ultramicroscopic imaging techniques, functional cellular assays, and procedures for preclinical experimentation in animal models.

The knowledge and understanding skills previously outlined are acquired through participation in lectures and laboratory exercises, which provide opportunities for students to independently carry out experimental protocols, as well as through classroom activities guided by lecturers and tutors, and through personal study.

The achievement of the expected learning outcomes is assessed through continuous and periodic evaluations, including written and oral examinations, intermediate tests, practical laboratory assessments, and related reports, as well as critical discussions of scientific articles.

b) Applying knowledge and understanding

Graduates will be able to translate acquired knowledge into experimental research and development activities. They will enhance their problem-solving skills applied to new and unexplored issues in the field of regenerative medicine.

In particular, graduates will be able to:

- develop experimental protocols applied to the design of new therapeutic strategies;
- apply biotechnology and nanotechnology to the development of tissue engineering approaches;
- independently develop ideas and propose solutions for new challenges in the field of regenerative medicine;
- use animal models suitable for the design of preclinical studies to answer specific scientific questions;
- use innovative technologies (e.g. CRISPR-Cas9, 3D cultures, organoids, etc.) for the development of new therapeutic and diagnostic strategies;
- Consider ethical issues related to stem cell use and pre-clinical research;
- work in the field of clinical trials in regenerative medicine.

The educational tools aimed at achieving the aforementioned competencies include core course units as well as laboratory activities. Both in lectures and in laboratory sessions, a problem-solving approach is applied, enabling students, under the guidance of lecturers and academic tutors, to reconstruct events, define problems, understand the scope of analysis, identify underlying causes, explore possible solutions, and evaluate their effectiveness through appropriate analytical and statistical methods.

In this way, graduates acquire the ability to practically solve increasingly complex problems, analyze novel issues, manage emergencies, and interact effectively with colleagues and other healthcare professionals. The acquisition of these competencies is assessed throughout the entire educational process by means of ongoing evaluations and examination tests.

c) Making judgements

Graduates will have the ability to integrate knowledge and manage complexity, as well as to make judgements based on limited or incomplete information, including aspects regarding social and ethical responsibilities related to the application of knowledge and judgments.

Graduates will be able to:

- work independently and take responsibility for managing projects and resources;
- extend knowledge in cross-cutting applications in other areas of biomedical research;
- significantly contribute to interdisciplinary research activities by collaborating with scientists with different backgrounds;
- apply methodological rigor in the evaluation and interpretation of laboratory data;
- demonstrate ethical integrity in relation to the diagnostic and therapeutic applications of biotechnology in human health and awareness about possible conflicts in ethical, legal and professional values, including those that may emerge from economic distress, from the use and genetic manipulation of stem cells, from the commercialization of stem cell-based treatments in regenerative medicine, and from the inappropriate use of modern genetic engineering technologies;
- demonstrate management and technology transfer abilities relevant for the international biotechnology industry;
- be able to constructively criticize and have creative research-oriented attitude;
- solve analytical and complex problems and independently gather scientific information.

The educational tools aimed at fostering the development of independent judgment, as previously described, include core course units and laboratory activities, as well as critical dialogue with lecturers, tutors, and international scientists. Through these interactions, graduates acquire critical thinking skills and independent judgement. The achievement of the latter is assessed

through ongoing evaluations and examination tests. It is also verified during the final examination, in which the candidate must present a thesis characterized by originality.

d) Communication skills

Graduates will be able to communicate clearly and to correctly use technical language in order to appropriately disseminate scientific content to colleagues and layman.

They will be able to:

- communicate effectively with their colleagues and all staff members;
- understand, summarize and disseminate information in a clear and concise manner via both written and oral means of communication;
- listen to others, interact and answer questions, and reformulate concepts to ensure understanding by others;
- provide and receive constructive feedback and criticism;
- disseminate scientific content both to colleagues and layman, and adjust terminology based on stakeholders;
- work productively in a multidisciplinary group and propose and communicate ideas;
- understand the different aspects of regenerative medicine and actively contribute to the advancement of the knowledge in the field;
- use IT technologies to analyze and present data.

The ability to effectively communicate scientific ideas and issues is also developed through the preparation and discussion of individual assignments, journal clubs, and the final thesis. The professional internship enables students to communicate information and ideas not only within academic settings but also among professionals in the relevant sectors, including those already active in the field. The teaching methodologies employed include participation in classroom and laboratory exercises, group work, and guided independent study. The achievement of the expected learning outcomes is primarily assessed through written or oral examinations and the completion of project work.

e) Learning skills

Graduates will develop:

- the ability to learn, develop and refine their skills;
- the ability to find the appropriate sources of scientific knowledge, critically analyze scientific literature, and learn to classify and interpret data and results;
- the ability to advance their knowledge in the field of regenerative medicine;
- the ability to increase and enhance their strengths and to recognize and improve their weaknesses and critical points.

The development of learning skills, as described above, is supported through communication in the English language, as well as through the use of digital and multimedia tools that foster critical thinking in the analysis of scientific literature. These methodologies prepare students for the continuous learning that is inherent to the profession and encourage self-directed learning. Learning skills are assessed through continuous evaluation during educational activities, by integrating the knowledge acquired in lectures and laboratory sessions with that gained through independent study. The student's critical contribution is evaluated during exercises, seminars, and laboratory activities, as well as through the assessment of self-learning abilities developed during the final thesis work. Graduates, aware of the necessity and irreplaceable value of lifelong learning, acquire both the attitude and the ability to pursue it autonomously, making optimal use of available resources to maintain a high professional standard over time.

ADMISSION

The Master's Degree Programme in Innovations in Biotechnology Applied to Regenerative Medicine has locally restricted access (pursuant to Article 2, paragraph 1, letter a) of Law no. 264/1999).

The admission requirements for the programme include possession of a Bachelor's degree in one of the degree classes specified by Ministerial Decree no. 1648/2023 (or a degree awarded under the previous Ministerial Decrees of 16 March 2007 and no. 509/1999 considered equivalent thereto).

- L- 2 (Biotechnology)
- L-13 (Biological Sciences)
- L-27 (Chemical sciences and technologies)
- L-29 (Pharmaceutical Science and Technology)
- L-32 (Environmental and Natural Sciences)
- LM-13 (Pharmacy and Industrial Pharmacy)
- LM-41 (Medicine and surgery)
- LM-46 (Dentistry and dentures)
- LM-21 (Biomedical Engineering)
- .

Admission can also be allowed to graduates coming from other courses than those mentioned above given that the graduates possess the following curricular requirements:

- Minimum 10 credits (CFU) in the following SSDs: MAT/05 (Mathematical Analysis), MAT/06 (Mathematical Probability and Statistics), MAT/09 (Operations Research), INF/01 (Informatics), FIS/01 (Experimental Physics), FIS/07 (Applied Physics - in cultural, environmental, biology and medicine), CHIM/02 (Physical Chemistry), CHIM/03 (General and Inorganic Chemistry), CHIM/06 (Organic Chemistry), CHIM/08 (Pharmaceutical Chemistry)
- Minimum 30 credits (CFU) in the following SSDs: BIO/09 (Physiology), BIO/10 (Biochemistry), BIO/11 (Molecular Biology), BIO/12 (Clinical Biochemistry and Clinical Molecular Biology), BIO/13 (Experimental Biology), BIO/14 (Pharmacology), BIO/15 (Pharmaceutical Biology), BIO/16 (Human Anatomy), BIO/17 (Histology), BIO/18 (Genetics), BIO/19 (General Microbiology), MED/03 (Medical Genetics), MED/04 (General Pathology), MED/07 (Microbiology and Clinical Microbiology).

Admission can also be allowed to graduates who obtained a degree abroad and that have the degree equivalency according to current legislation, and admissions is also open to those who possess an EQF level 7 degree obtained abroad that meets the minimum curricular requirements for access to the course. English certification - minimum level of B2 CEFR (upper intermediate level), is also required. Language certification is not required for students who have completed an English degree program.

DESCRIPTION OF THE PROGRAM

The educational programme, structured over two years, features a strong integration between classroom-based teaching and laboratory activities, with the latter gradually taking precedence (“hands-on” approach).

In the first year, the presence of courses in the areas of "Common Biotechnological Disciplines" and "Fundamental Disciplines Applied to Biotechnology" aims to provide students with essential knowledge for understanding the foundations of regenerative medicine. These courses focus on the biological mechanisms involved in tissue homeostasis, starting from the molecular level, and their alterations during degenerative processes. They offer a multidisciplinary understanding of tissue regeneration, with particular reference to stem cells and the latest scientific advances (e.g., gene editing, -OMICS sciences). These courses also develop key skills for designing, planning, and writing a research project in regenerative medicine, and crucial steps for preparing applications. Students also acquire knowledge in both methodological aspects related to the most widely used analytical and quantitative tools in regenerative medicine and core concepts of tissue engineering, with a focus on biomaterials development. Additionally, courses in the field of “Medical-Surgical Disciplines and Human Reproduction” explore tissue degeneration processes and the potential of stem cells, both from a biological and ethical perspective, offering an integrated, multidisciplinary view. Courses of the area of “Human Sciences and Public Policy” provide students with the knowledge and skills necessary to understand and implement the translation of research results into clinical and therapeutic applications. These focus on the regulatory aspects of Advanced Therapy Medicinal Products (ATMPs), principles of clinical trial conduct (including ethics and economics), and the systematic activities involved in technology transfer. This enables students to acquire fundamental competencies to begin professional careers in the biotech industry or in national and international regulatory agencies

Courses **in the second year** are designed to offer robust experimental and practical skills, allowing students to apply the theoretical knowledge gained and to develop critical thinking skills in scientific disciplines. Through courses and especially laboratory sessions of “Common Biotechnological Disciplines” and “Fundamental Disciplines Applied to Biotechnology,” students gain hands-on experience with major techniques in cell biology (e.g., stem cell isolation, culture, and characterization) and molecular biology (e.g., nucleic acid extraction, purification, quantification, amplification, and sequencing), as well as the main analytical methods used in regenerative medicine (e.g., imaging techniques, spectroscopy, flow cytometry).

The program also strengthens knowledge on the most widely used preclinical models in regenerative medicine (e.g., microfluidic systems, statistical and mathematical models). Courses within the subject area “Morphology, Function and Pathology of Cells and Complex Organisms” provide the theoretical and practical skills required for the appropriate use of animal models and related experimental procedures. To promote communication and workplace integration in multicultural environments, the program includes Italian language courses for international students and English language courses for Italian students, along with integrated activities.

Practical sessions will take place in several laboratories, including the Centro di Ricerca Eugenia Menni (CREM) at Fondazione Poliambulanza-Brescia—internationally recognized for its contributions to stem cell research and regenerative medicine—and the laboratories of the i-Lamp Research Centre for advanced materials physics, based at the Department of Mathematics and Physics of the Università Cattolica in Brescia. Students will constantly engage in discussions with each other and with faculty members, supported and guided by multiple tutors who are experienced researchers in the subjects taught.

Over the two-year program students will earn a total of 120 ECTS credits.

Under Article 5, paragraph 1, of Ministerial Decree of 22 October 2004, no. 270, each university credit (ECTS) corresponds to 25 hours of total student workload.

The breakdown of total workload per ECTS credit between guided teaching and individual study is as follows:

- 1 ECTS (lecture): 8 hours of lectures + 17 hours of individual study
- 1 ECTS (laboratory): 25 hours of guided teaching
- 1 ECTS (internship): 25 hours of training activities (at the host institution/company)
- 1 ECTS (final examination): 25 hours of individual study

Attendance is compulsory for all educational activities, both lectures and laboratory sessions. To be eligible for exams, students must attend at least 65% of classroom lessons and 80% of laboratory activities. Each course instructor may determine how to monitor attendance.

After obtaining the minimum number of ECTS credits set by the program regulations, students may undertake their internship, which is preparatory to the final thesis. Internships may be carried out at CREM, at biotech companies in Italy or abroad, or at industries or research centers affiliated with the university.

EXPERIENCES OF INTERNATIONAL MOBILITY

Università Cattolica del Sacro Cuore offers students numerous opportunities and possibilities for study, research, internship and volunteering abroad.

YOUR CLINICAL ELECTIVE

Through the 'Your Clinical Elective' program, students have the opportunity to undertake a clinical internship of at least one month at healthcare organizations and/or hospital facilities in Europe or outside Europe, which they may choose independently, based on an internship request submitted directly to the host institution of their interest.

The program is open to students regularly enrolled in the degree program, both at the time of application and during the period of their stay abroad. It is also open to recent graduates (who have obtained their degree no more than 12 months before the start of the internship) interested in undertaking clinical or research-based training abroad.

The program is promoted through a dedicated call for applications that remains open throughout the year and is published on the university website.

Students selected for participation are eligible for mobility scholarships. The amount and type of funding may vary depending on the program and the source of funding used, including EU funds, UCSC funds, and Italian Ministry of University and Research (MUR) funds. The International Development Office is responsible for identifying funding opportunities, submitting funding applications, and managing financial reporting.

The internship experience can be recognized with ECTS credits, upon submission of appropriate documentation certifying the activities carried out abroad and subject to approval by the Degree Program Council. It may also grant students bonus points to be added to their final graduation mark, in accordance with the provisions of the program's Academic Regulations, based on the duration (in months) of the certified experience abroad.

The International Office – Rome campus (International Development Office) provides support to the Faculties in the process of approving the training activities completed abroad by students participating in the mobility program.

All information about the program and the open call for applications is available at: <https://studenticattolica.unicatt.it/clinical-electives-professionisti-sanitarie-your-clinical-electives>

THESIS ABROAD PROGRAM

The Thesis Abroad program offers students the opportunity to carry out research activities for the preparation of their thesis at a foreign university, company, research institute, library, or other organizations, either in Europe or beyond.

Students may choose their preferred destination based on their academic interests, in agreement with their thesis advisor.

To apply for the program, students must submit:

- a copy of the approved thesis topic,
- a letter of recommendation from their thesis advisor, and
- an acceptance letter from the host institution.

The program is promoted through a call for applications that is open year-round and available on the university website: <https://studenticattolica.unicatt.it/stage-e-tesi-all-estero-tesi-all-estero>.

A fixed-amount scholarship is available to support stays abroad of up to three months. If funds are exhausted before the application deadline, students may still submit their documentation and be placed on a waiting list.

Please note that this scholarship cannot be combined with any other financial aid provided by the Università Cattolica International Office and cannot be requested in connection with other mobility programs.

Participation in the program includes insurance coverage for:

- healthcare,
- civil liability during research activities, and
- personal liability during free-time activities ("private life" coverage).

The experience will be officially recognized upon submission of appropriate documentation certifying the study activities carried out abroad and subject to approval by the Degree Program Board

SUMMER PROGRAMS

Through Summer Programs, students have the opportunity to study and take exams abroad during the summer period at various universities around the world. Mobility duration ranges from 2 weeks to 2 months.

All enrolled students and recent graduates of the Degree Program are eligible to apply. Participants are selected based on language proficiency.

Merit-based scholarships are awarded to the most outstanding students in each Faculty.

The call for applications is published on the university website: <https://studenticattolica.unicatt.it/summer-programs-e-corsi-di-lingua-summer-programs>

INTERNATIONAL VOLUNTEERING PROGRAM

The International Volunteering program, in partnership with the global association WorldEndeavors, offers students the opportunity to take part in international volunteering experiences in various fields and countries.

All students regularly enrolled in the Degree Program are eligible to apply, provided they remain enrolled both at the time of application and during the period abroad. Selection is based on language proficiency.

Merit-based scholarships are available for the most deserving students in each Faculty.

The call for applications is published on the university website: <https://studenticattolica.unicatt.it/volontariato>

LANGUAGE COURSES ABROAD

In collaboration with Keiron (a specialized agency in orientation and organization of language courses), this program offers intensive language courses abroad, from beginner to advanced level. These courses are designed to improve or certify language skills, and cover all the languages taught at Università Cattolica del Sacro Cuore. Destinations span the globe and departures are possible throughout the year.

All course types are available: beginner to advanced, standard or intensive, individual or group-based, including preparation courses for major international certifications.

The program is open to all students and graduates of Università Cattolica del Sacro Cuore. The opportunity is available year-round on the university website: <https://studenticattolica.unicatt.it/summer-programs-e-corsi-di-lingua-corsi-di-lingua-all-estero>

The International Office – Rome (Area Sviluppo Internazionale) provides guidance and front-office support to students interested in the above-mentioned programs. This includes orientation events (Open Day, International Day), information sessions on all mobility opportunities, orientation meetings with selected students, and in-class presentations about each program.

The office is also responsible for the full management of study abroad programs and internships/volunteering/clinical electives abroad (including nomination, application, mobility support, and follow-up upon return).

Contact email: ucsc.international-rm@unicatt.it

UCSC International Link : <https://studenticattolica.unicatt.it/informazioni-utili-contattaci>

ACADEMIC INFORMATION

The academic calendar of academic year 2025/2026 is published on the University *website* page:

<https://studenticattolica.unicatt.it/Innovations%20in%20Biotechnology%20Applied%20to%20Regenerative%20Medicine%202526.pdf>

The exams are normally scheduled at least 5 days after the end of the teaching activities in order to avoid the overlap of different withing the same semester.

Exams of the same course must be planned at least 15 days apart. The date cannot be anticipated but may be postponed for justified reasons. The postponement must be communicated to students at least one week before the scheduled date, except in cases of force majeure.

Exam sessions are normally distributed as follows:

- 2 calls for each ordinary session (winter, summer, autumn)
- 1 call for extraordinary sessions (winter and spring)

Additional sessions may be reserved for out-of-course students.

STUDY PLAN ACADEMIC YEAR 2025/2026

The schedule with the list of courses and corresponding credits and SSD is found in Annex A to this Guidebook.

In the study plan, the courses chosen by the student belonging to the typology called Regenerative medicine applications are highlighted in red and the courses chosen by the student belonging to the typology called Seminars and journal club are highlighted in blue.

There are no mandatory prerequisites for the courses.

Students who have not passed all the exams for the first year will not be admitted to second year exams.

OTHER EDUCATIONAL OBLIGATIONS

In accordance with the provisions of Article 10, paragraph 5, of Ministerial Decree no. 270 of 22 October 2004 the study plan includes the following mandatory activities:

- Training activities chosen by the student ("elective courses") for 8 ECTS;
- Internship for 4 ECTS;
- Training activities related to the preparation of the final exam for 14 ECTS

The optional courses consist of attending laboratory activities and participating in seminars, conferences and journal clubs on specific topics. Optional courses are organized in modules of 1/2 credit each. In order to obtain 8 ECTS required by the study plan, the student must choose at least four different types of modules during the periods indicated in the Student Guide.

Optional courses are governed by specific Regulations of the Faculty of Medicine and Surgery.

The main objective of the internship is to integrate the university curriculum in terms of content and to facilitate the integration of undergraduates into the professional workforce. The training internship is a prerequisite for the final examination.

Graduating students may carry out the training internship at Centro di Ricerca Eugenia Menni (CREM), at biotech companies in Italy or abroad, at industries in agreement with the University, or at research centers and laboratories, including those of other entities affiliated with the University.

The final exam consists in the discussion of an original thesis written in English. The thesis can be experimental or applied in a professional-practice context. In case of an experimental thesis, the student has the opportunity to contribute writing a scientific manuscript on his/her work.

HOW TO OPTION ELECTIVE COURSES

Students personalize their study plan by choosing their own desired courses among those approved by the Master's Degree Board on their personal page iCatt in the mandatory terms specified above:

- **Students enrolled at 1st year: 15th September 2025 - 22nd December 2025**
- **Students enrolled at 2nd year: 15th September 2025 - 15th October 2025**

Once expired these terms, students it won't be consented any variation of the elective courses.

The student can option only the elective courses taught in the year of the Master's Degree Course in which he/she is enrolled and cannot choose elective courses taught for subsequent years.

VERIFICATION OF PROFIT

The student acquires the credits after passing the exam or other forms of verified comprehension.

All exams are public, individual, and ensure fairness in student evaluation.

Each lecturer/professor is required to indicate the specific methods that will be used to verify the verification of the profit for the specific course. This program is published on the website of the Master's degree <https://roma.unicatt.it/polo-studenti-e-didattica-programmi-dei-corsi-e-orari-delle-lezioni/RM/>

The Boards for the exams are comprised of at least two members, one of whom is responsible for the course. In the case of one exam for several integrated teaching modules, all the lecturers/professors in charge of the modules are part of the Commission.

The final grade of exams is expressed by a score out of 30 maximum points. The exam is considered passed and the credits are obtained if the student obtains a score of at least 18/30.

At the end of the exam the President of the Commission informs the student of the grade. During the course of the exam, the student can withdraw without consequences to his future grades. The student's participation in the exam must always be recorded. Teachers with integrated courses or modules can also make use of periodic tests to evaluate the progress of the course. These do not replace the final exam.

FINAL TEST

At the end of the educational program, the student is required to take a final examination, which consists of the defense of a written thesis. The final exam consists in the discussion of an original thesis written in English, elaborated under the guidance of a supervisor. The thesis can be experimental or practical-professional.

The presentation and discussion of the degree thesis are public.

The final graduation grade is expressed by a score out of 110 points. The degree is obtained by students who pass the final exam with an overall mark of at least 66/110.

The graduation mark is calculated by summing:

- the **weighted average** of the exams carried out during the program. The weighted average is calculated by multiplying the grade of each course by the number of credits assigned to the course (**excluding the English Language and Theology exams**); the sum is then divided by 120 total credits. The result obtained is divided by 3 and multiplied by 11. Where a decimal number is obtained as a result of this calculation, the number will be rounded down if the decimal place is less than or equal to 0.45, or rounded up if the decimal place is greater than 0.45. For the purpose of calculating the weighted average, the grade 30/30 cum laude is equivalent to 31.

- **an additional score (up to a maximum of 10 points)** can be assigned by the Graduation Commission that takes into account not only the content and scientific value of the thesis, but also the clarity of presentation, ability to summarize, the degree of experience achieved in the use of multimedia communication tools, and consideration for the methodological and ethical aspects of biotechnologies applied to regenerative medicine.

- **another additional score (up to a maximum of 0.3 points)** can be assigned by the Graduation Commission that takes into account the mark obtained in the Theology exam, according to the following scale:

- Theology grade in the range 18-24 – 0.1 points
- Theology grade in the range 25-27 – 0.2 points
- Theology grade in the range 28-30L – 0.3 points

- **a third additional score (up to a maximum of 0.5 points)** can be assigned by the Graduation Commission that takes into account international mobility of at least two months for study, internships, research and thesis execution.

Praise may be awarded, by unanimous decision of the Commission, to the candidate who achieves an overall score of at least 112/110.

The Commissions for the final exam are constituted in accordance with the provisions of Article 7 of the University Regulations.

HOW TO GRADUATE

Choice of topic for final examination

In order to obtain approval of the topic and the subsequent authorisation to apply for graduation, it is necessary to complete the relevant *online* section on iCatt.

In order to be admitted to the final examination, students must comply with the following requirements:

- submission of the dissertation project to the supervisor (to be agreed upon with the professor);
- submission of the dissertation title on the iCatt dedicated page;
- assignment of the dissertation by the supervisor on MyEsse3-Docente;
- approval of the dissertation by the supervisor on MyEsse3-Docente;
- submission of the application for admission to the final examination which can be made after the dissertation has been approved by the supervising professor.

Submitting the final dissertation

The .pdf file of the dissertation must be sent to the professor via the iCatt personal page. In addition, two typewritten, book-bound copies of the dissertation must be handed in to the supervisor and co-supervisor within 7 days before the graduation call.

The paper must be uploaded to the iCatt personal page no later than 7 days before the date of the session.

Before obtaining the degree, the student must:

- deliver the university transcript (if in possession) and the badge to administrative offices;
- deliver the keys to the locker assigned for the internship (if in possession) to the specific secretariat of the degree programme or to the Director of Internship Activities.

Inability to take the final examination

Graduating students who, for whatever reason, are unable to graduate in the session for which they have applied must promptly inform the dissertation supervisor and the Student Services Centre, via the Request for Information function of iCatt, and are obliged to cancel their Application for graduation on iCatt and submit a new one for the following session.

Other relevant information

1. No graduating student will be admitted to the final exam if he/she has not complied with the deadlines published on the web page of the Faculty.
2. Graduating students must have taken and recorded all the exams by the deadline for delivery of the university transcript.
3. Graduating *status* is acquired upon presentation of the graduation application for a specific graduation session, having the requisites. Students who believe they will be awarded a degree by the extraordinary session do not have to enrol in the following academic year, nor pay the first instalment (which is non-refundable), but must pay the relevant graduation fee. If the graduation is postponed, the students must enrol in the following academic year with delay and pay the first instalment and the relevant late payment.

THEOLOGY REQUIREMENT

Objectives

Theology courses are a distinguishing feature of Università Cattolica. They complement curricular content with a critical development of thorough reasoned knowledge of Catholic values which can be applied to an educational and professional path. All students enrolled on *Degree Programmes* at Università Cattolica are required to attend Theology courses, in addition to activities set down in their study plan.

Theology Courses

36-hour semester Theology courses cover three years of study at undergraduate level and one 30-hour semester course is programmed at graduate level.

Programme

Year One: *Theology 1: Introduction To Christology And Scriptures*;

Year Two: *Theology 2: Introduction To Theological Anthropology And Ecclesiology*;

Year Three: *Theology 3: Introduction To Ethics And Christian Ethics*;

Year Four (Graduate level): *Course on Bioethical issues (either seminars or a single-focus course)*.

The 30-hour (graduate level) course semester is held either as seminars or as a monographic single-focus course, according to the denominations set by the College of Professors of Theology. The course ends with a test set by the teacher.

Theology courses are mandatory and require compulsory attendance according to established regulations:

a minimum of 65% attendance is required to take the exam, and students with less than 30% attendance will not be admitted to the exam.

For Bachelor's Degree Programs (LT), the required attendance is 75% or 80% (for Nursing) or 40%, depending on the specific course. These rules apply to all Theology courses.

Attendance will be recorded through the Blackboard platform using the Qwickly Attendance app.

STUDENT STATUS

There are two student status categories which are assigned on the basis of students' academic standing and fulfilment of degree programme requirements.

- Status: 'regular' (*in corso*)

This status applies to students who have satisfied attendance and examination requirements for their Degree programme.

Students enjoying 'regular' status can take examinations in the current year of enrolment during the programmed ordinary examination sessions. Outstanding examinations may be taken during the extra examination sessions during the same year.

- Status: 'outside prescribed programme duration' (*fuori corso*)

This status category applies to students who have not passed all the exams necessary for admission to the final exam within the normal duration of the study course and/or students who have not completed their academic qualification by the last graduation session useful for the regular enrolment.

Students who are assigned this category may not attend courses for subsequent programme years but can take outstanding examinations during ordinary, extra and sessions dedicated to 'outside prescribed programme duration' (*fuori corso*) students.

RENEWAL OF ENROLMENT

The first instalment of annual tuition and university fees must be paid before enrolment can be renewed. Until payment of the required fees has been received, students will not be able to undertake instructional activities, register for credit-bearing exams or

register for their final exam. Student records will be updated and enrolment will be effected when the outstanding fees have been paid, together with payment of any penalty fees due.

Enrolment for the academic year is automatic upon receipt of payment of the first instalment of tuition and university fees. The first instalment is non-refundable and enrolment may not be cancelled (see Art. 4, Paragraph 8, of Title I "General rules" of the University Academic Regulations and Art. 27 of the Students Regulations, approved by Rector's Decree No. 1269 dated 4 June 1938).

Information regarding tuition and university fees is available in the "Tuition and university fee regulations" documentation are available at <https://www.unicatt.it/ammissione/costi-e-opportunita/quanto-costa-studiare-in-cattolica.html>

In line with the regulations, students who are not up to date with payment of their tuition and university fees may not:

- enroll on any program year;
- be admitted to exams;
- obtain a transfer to another degree program or specialisation diploma programme;
- obtain a transfer to another university;
- obtain enrolment certificates.

Students resuming their studies after for a break of one or more academic years are required to pay tuition and university fees for the academic year in which they resume their studies, while a deferral fee will be due for each deferred year of studies.

Students resuming their studies at the beginning of an academic year and requesting registration for scheduled exam sessions for previous academic years are required to pay an additional fee.

ADMINISTRATIVE REGULATIONS

Examination Regulations

It is the responsibility of each student to make sure that they are aware of the rules and regulations relating to the study plan of their degree programme. Each student is personally responsible for the cancellation of the results of any examination taken that fails to comply with rules and regulations.

Students are reminded that cancellation of examination results can be avoided by complying with the rules of year-to-year progression and by ensuring that they have passed the relevant prerequisite exams before progressing to subsequent exams. Results for exams not taken in the correct order will be cancelled and those exams will have to be taken again.

Grades awarded by examination panels are final and cannot be changed. Once a pass grade has been registered in student records, that particular exam cannot be re-taken (see Article 6.6, Part I – ‘General Rules’ of the University Academic Regulations). The Faculty has the prerogative to stipulate that a failed examination may not be taken again before a specified time period not exceeding four weeks.

Students may leave an examination before it has finished. Students given a pass grade have the right to refuse that grade until it is registered in student records. If a fail grade is given, the information will be retained for statistical purposes only and will not be recorded in the student’s grade book or in the student’s academic records.

Students are required to present the following documentation at exam sessions:

- academic transcript (*libretto*);
- exam registration confirmation form;
- Badge (Student ID card);
- valid ID document.

Procedures and conditions

Students may only take exams if they:

- a) are up to date with payment of tuition and university fees;
- b) have registered for the examination in line with relevant regulations.

Examination panels for curricular exams

Members of examination panels for curricular exams are nominated by the Faculty Dean. Each panel is made up of a minimum of two members: the official professor for the course who acts as Chair, and one other official faculty member, researcher, teaching assistant or expert on the subject. Should the Chair of an examination panel be absent for any reason, the position will be taken by another faculty member appointed by the Dean of the Faculty or by the Chair of the Degree Program Committee or by the Chair of the examination panel him/herself.

The Chair of an examination panel may divide the panel into sub-panels to ensure that the exam is run properly and efficiently. Should any student request to be examined by the Chair him/herself, every effort will be made to satisfy this request.

TRANSFER CONDITIONS

Transferring to another university

Enrolled students may request transfer to another university. After a proper check of the study rules and regulations of the potential destination university, application for transfer can be submitted to Student Services between 15 July and 13 October. Please note that if the deadline for the other university is earlier than 31 October, application will have to be made earlier to allow for sufficient processing time.

Transfer applications submitted after 31 October and before 31 December will be subject to a late application fee based on submission date. Transfer may not take place without prior acceptance by the destination university.

The student who intends to transfer to another University is required to follow the online procedure "Transfer to another University" by accessing the following page: <https://studenticattolica.unicatt.it/strumenti-e-supperto-modulistica?rdeLocaleAttr=en>

Before authorisation for transfer can be given, the student in question must have:

verified via iCatt his/her academic record and notified the registrar of any correction to be made or request the addition of missing data;

requested via iCatt a transcript of records from Student Services showing all exams passed;

settled all related tuition and university fees outstanding at the moment of application.

The transfer application must bear a revenue stamp to the value set down by legislation in force.

Students may not take any further examinations after submission of an application for transfer. Students who transfer to another university may not transfer back to Università Cattolica before one year of the date of transfer. Students who are readmitted to Università Cattolica are admitted to a particular year based on passed exams and not on their previous enrolment year. They may also be required by the Faculty Board to pass further examinations to bring their studies up to the level of the Università Cattolica students.

Transferring to Università Cattolica from another university

Admission procedures after year one for programs with limited numbers of places are decided by the relevant university bodies, in line with university regulations. These procedures are determined on the basis of the number of places available each given year and consider compliance with the selection criteria as stated in the call for admissions and the admission rules.

An Evaluation Committee appointed by the Chair of the Master's Degree Programme Committee Council Master's Degree Program Committee Council rules on recognition of previous studies carried out at other universities.

Withdrawal/Intermitting

Students have the right to withdraw from their program. First, they will be required to settle any outstanding tuition and university fees before applying for withdrawal.

The student who intends to renounce his studies is required to follow the online procedure "Application for renunciation of studies" by accessing, with his iCatt credentials, the following page: <https://studenticattolica.unicatt.it/strumenti-e-supperto-modulistica?rdeLocaleAttr=en>

No terms or conditions can be added to the written request/reason for withdrawal in the application.

Students who withdraw can request documentation certifying their academic record up to the date of withdrawal as long as their administrative record is up to date.

The following categories of students may not enrol on a new academic year and will therefore no longer be officially considered as current students:

those who have not enrolled for five consecutive years;

those who, at the end of their prescribed programme duration, have not passed any examinations for five consecutive academic years. This does not apply to students whose only outstanding exam is their final exam, i.e. those students who have accumulated all necessary credits apart from those for the final exam.

Enrolled students have the right to submit application to intermit, i.e. to suspend studies temporarily for the purpose of enrolling on and attending a specialising master's programme, a specialty training programme, or a doctoral programme. At completion of intermission students may go back to their original study programme provided it is still being offered.

Teaching Evaluation

The Ministry of University and Research (MUR), has issued directives that universities must carry out assessment of course teaching for every Integrated Course.

Students will be required to complete an assessment questionnaire in order to register for an examination.

TUTORING

TEACHING AND CAREER TUTORS

For each year of the program, the coordinators of the integrated courses provide students with guidance to address educational challenges (including, when necessary, the organization of intensive or remedial courses to address gaps identified during the course, as well as disciplinary insights). They also offer support in the selection of internships, thesis subjects, and elective activities.

In the "Tutor" section of the SUA-CdS (Annual Monitoring Report), the names of career tutors (faculty members who provide counseling regarding academic progress) and teaching tutors (faculty members who support the development of disciplinary and/or professional skills) are listed.

STUDENTS WITH DISABILITIES OR SPECIFIC LEARNING DISORDERS (SLD)

The degree program ensures that students with disabilities or with a diagnosis of Specific Learning Disorders (SLD) are provided with appropriate tools and measures to guarantee their right to education, in compliance with Art. 5, paragraph 4 of Law no. 170/2010.

At the Student Hub, a Support Services Office for the integration of students with disabilities and SLD has been established. This office accompanies students throughout their university experience, from orientation to graduation, offering both technical-administrative and educational support provided by specialized pedagogical staff.

Technical-administrative support includes:

- Management of administrative procedures;
- Accompaniment service for students with disabilities to attend classes, subject to request volume;
- Mediation for access to educational materials.

Educational support includes:

- Freshman orientation: Students with disabilities or SLD receive guidance in selecting their degree program and during the initial phase of academic attendance, with information and strategies useful for beginning their university journey;
- Pedagogical counseling service: Through individual and group meetings, the specific educational needs of students with disabilities or SLD are identified to support their course attendance and success in exams and other assessments.

Students with disabilities or a diagnosis of SLD may access these support services by submitting appropriate documentation certifying the disability and/or the SLD diagnosis to the Support Services Office.

Students with temporary disabilities may also request support upon submission of appropriate medical certification.

Link : <http://tutorato.unicatt.it/sot-tutorato-tutorato-a-roma>

SERVICES FOR INCLUSION OF STUDENTS WITH DISABILITIES, WITH SPECIFIC LEARNING DISABILITIES (DSA) AND WITH SPECIAL EDUCATIONAL NEEDS (BES)

The Università Cattolica del Sacro Cuore warrants to all students with disabilities, specific learning disorders (DSA) and special educational needs all the measures and compensatory instruments in order to preserve their rights.

At the Student Center Services (Polo Studenti) it is established the “Services Secretariat for the integration of students with disabilities and with DSA”, whose role is to support students with disabilities and diagnoses of specific learning disorders (DSA) and special educational needs (BES) during their university experience, from the early stages of orientation up to the attainment of the Degree, through technical-administrative and accademic support, provided by specialized staff.

Technical-administrative support consists of:

- management of administrative procedures;
- accompanying service for students with disabilities to the classes;
- mediation on educational material.

The accademic support consists of:

- orientation: support for students with disabilities and DSA diagnosis in the choice of study programmes and during the initial phase of the attendance to the activities, through useful information and strategies on how to undertake the course;
- pedagogical advisory service: through individual interviews and group meetings, specific educational needs of students with disabilities and DSA diagnosis are identified, in order to guarantee successful attendance to classes and exams results.

Students with disabilities and DSA/BES diagnoses can access the aforementioned support services by submitting one of the following valid documents to the “Secretariat of Services for the integration of students with disabilities and with DSA”:

- civil invalidity certificate, pursuant to Articles 1 and 2 D.L. 1 July 2009, n. 78, or a corresponding document issued by the relevant institution of the student’s own country
- report of handicap verification, pursuant to Article 4 Law n. 104, 5th February 1992 or corresponding document issued by the relevant institution of the student’s own country
- certification (no older than 3 years) issued by an healthcare institution or by other accredited institutions or specialists, that certifies the diagnosis of one of the specific learning disorders referred to in Law n. 170/2010 - dyslexia, dysgraphia, dysorthography, dyscalculia - and the appropriate nosographic codes.

Students with temporary disabilities can also apply for support, upon provision of a medical certificate attesting the temporary disability (e.g.: fracture of a limb).

CARRIERA *ALIAS*

Students enrolled in any course of study offered by the Catholic University who have started a gender transition process can request activation of the “*carriera alias*” to use the chosen name throughout their university course, from taking exams to discussing their thesis and the proclamation.

The *carriera alias* provides for the assignment of a temporary identity that remains active for the entire duration of the university course or until the gender change ruling pursuant to Law no. 164/1982 is issued if this occurs during the course of study.

After activation of the *carriera alias*, the chosen name will appear on the badge, in the institutional e-mail address and in all the University information systems and it will not be possible to trace the personal name.

The use of the chosen name and the personal alias will be valid only and exclusively within the University. Certifications referring to the applicant issued by the University for external use will refer exclusively to the personal identity and not to the *alias* identity.

The University will verify the possibility of using the *alias* personal data also with respect to third parties (for example, in the case of internships, placements, outgoing mobility projects, requests for scholarships financed by third parties).

The *carriera alias* is effective from the moment of signing a specific deed of commitment between the applicant and the Università Cattolica until the moment of interruption of the academic career, without prejudice to requests for interruption advanced by the applicant or the causes of deactivation for violation of the obligations set out in the deed of commitment.

The methods for activating the *carriera alias*, the obligations of the applicant and the consequences of violations of these obligations are contained in the Guidelines published on the University website (<https://www.unicatt.it/landing/istituzionale/pari-opportunita-e-inclusione/linee-guida/carriera-alias.html>)

Examination Regulations

It is the responsibility of each student to make sure that they are aware of the rules and regulations relating to the study plan of their degree programme. Each student is personally responsible for the cancellation of the results of any examination taken that fails to comply with rules and regulations.

Students are reminded that cancellation of examination results can be avoided by complying with the rules of year-to-year progression and by ensuring that they have passed the relevant prerequisite exams before progressing to subsequent exams. Results for exams not taken in the correct order will be cancelled and those exams will have to be taken again.

Grades awarded by examination panels are final and cannot be changed. Once a pass grade has been registered in student records, that particular exam cannot be re-taken (see Article 6.6, Part I – ‘General Rules’ of the University Academic Regulations). The Faculty has the prerogative to stipulate that a failed examination may not be taken again before a specified time period not exceeding four weeks.

Students may leave an examination before it has finished. Students given a pass grade have the right to refuse that grade until it is registered in student records. If a fail grade is given, the information will be retained for statistical purposes only and will not be recorded in the student’s grade book or in the student’s academic records.

Students are required to present the following documentation at exam sessions:

- academic transcript (*libretto*);
- exam registration confirmation form;
- Badge (Student ID card);
- valid ID document.

Procedures and conditions

Students may only take exams if they:

- a) are up to date with payment of tuition and university fees;
- b) have registered for the examination in line with relevant regulations.

Examination panels for curricular exams

Members of examination panels for curricular exams are nominated by the Faculty Dean. Each panel is made up of a minimum of two members: the official professor for the course who acts as Chair, and one other official faculty member, researcher, teaching assistant or expert on the subject. Should the Chair of an examination panel be absent for any reason, the position will be taken by another faculty member appointed by the Dean of the Faculty or by the Chair of the Degree Program Committee or by the Chair of the examination panel him/herself.

The Chair of an examination panel may divide the panel into sub-panels to ensure that the exam is run properly and efficiently. Should any student request to be examined by the Chair him/herself, every effort will be made to satisfy this request.

ONLINE SERVICES

Students' personal online page (iCatt)

All students have a personal iCatt webpage which provides access to administrative services and information about courses, e.g. timetables, exam sessions, announcements etc. The online registrar section provides access to students' Study Plans and to their current exam situation (exams already taken and outstanding exams). It also allows students to register for exams and update their income and tax information. The iCatt homepage will show communications from Student Services via an online notice board.

Students can access iCatt by going at <http://icatt.unicatt.it> and by entering their personal login and password.

For assistance in accessing iCatt please send an e-mail to gestione.iam@unicatt.it

Faculty personal online pages

Faculty have its own online page giving relevant information such as email addresses, office hours, courses and syllabi. Access is via <http://docenti.unicatt.it>

HEALTH SURVEILLANCE

Health Surveillance: definition and objectives

Health Surveillance is a set of medical acts, provided for by current legislation (Legislative Decree 9 April 2008, n. 81, integrated and amended by Legislative Decree 3 August 2009, n. 106, and subsequent amendments and additions), aimed at protecting the health and safety of workers, in relation to occupational risk factors, the work environment and the methods of carrying out work activities.

Subjects under Health Surveillance

Workers and their equivalents (e.g.: students) who, according to the Risk Assessment Document (DVR), prepared by the employer, are exposed to a or more risk factors for which current legislation requires health surveillance are subject to Health Surveillance.

Health Surveillance activities

The health surveillance activities are carried out by the competent M.D. of the Università Cattolica starting from the first year of the course, with a frequency established based on the type of risk to which the worker - student is exposed. These activities are performed at the Health Surveillance Unit located at the Poliambulanza.

Article 13 – Health Surveillance and Training on Occupational Health and Safety

1. Pursuant to Article 2 of Legislative Decree No. 81/2008, for the purposes of applying the regulations on health and safety protection in the workplace, university students are considered equivalent to workers. Therefore, Poliambulanza, based on the health protocols defined in relation to specific risks by the appointed Occupational Physician and Authorized Physician, ensures health surveillance of students in order to certify their fitness to carry out the specific laboratory activities provided for in the study plan, and complies with the obligations set out in Legislative Decree No. 81/2008 and Legislative Decree No. 101/2020, at its own expense.

As a result, both the issuance of fitness certificates and the custody of medical and risk records are the responsibility of the Employer at Poliambulanza.

(AGREEMENT FOR THE ACTIVATION AND MANAGEMENT OF THE MASTER'S DEGREE PROGRAM IN APPLIED BIOLOGY AND INNOVATIONS IN REGENERATIVE MEDICINE – LM-9)

Considering that students who have not completed their courses continue to attend professional training environments even after completing their teaching activities, health surveillance does not stop and must be complied with at the scheduled intervals until the study cycle is completed.

The health surveillance protocol may include:

- **Preventive medical examination:** The preventive medical examination aims to ascertain the absence of contraindications to the work (professional training) that the worker – student is destined for.
- **Periodic medical examinations:** Periodic medical examinations serve to monitor the health status of the worker – student over time, not only by identifying early any health damage resulting from exposure to professional risk factors, thus reducing the risk of occupational diseases and workplace injuries, but also by contributing to their prevention of these and to the “well-being” of the worker – student.

The Health Surveillance process, in order to obtain the Work Fitness Judgement, may include, depending on the competent doctor's evaluation, the execution of:

- **Hematochemical tests:** Hematochemical tests can be used to assess the worker – student's exposure to certain chemical or biological agents.
- **Other diagnostic tests:** The competent doctor may order other diagnostic tests deemed useful, such as electrocardiograms, spirometry, audiometry or X-rays, *etc.*
- **Vaccinations:** Health Surveillance can also be an opportunity to verify mandatory and/or recommended vaccination coverage.

Objectives of Health Surveillance

The main objectives of Health Surveillance are:

- **Assess Work Fitness:** Health Surveillance allows for determining the work fitness of the employee, that is, their psychophysical ability to perform their assigned duties safely and without risks to their own health or that of others,

expressed through the issuance of the Fitness Judgment.

- **Prevent health damage:** Health Surveillance helps prevent health damage to the worker - student resulting from exposure to occupational risk factors.
- **Promote health:** Health Surveillance is also an opportunity to promote the health of the worker - student by raising awareness of occupational risks and providing health education advice.

Health Surveillance is mandatory, without which the Fitness Judgment is not issued. Any refusal or failure to attend the examination results in an impediment to the student's clinical activity, professional training, and internships. From this perspective, the certification of the examination, issued by the competent doctor, is a prerequisite for the same.

HEALTH AND SAFETY AT WORK

Università Cattolica del Sacro Cuore is committed to protecting the health and safety of all those who work within it, including students.

When attending teaching or research laboratories, performing activities within healthcare facilities, or when exposed to occupational risks due to specific activities, students are considered as “equivalent workers.” Therefore, in compliance with the obligations regarding health and safety at work provided by Legislative Decree no. 81/2008 and subsequent amendments and additions, each student, as equivalent to a worker, has the right to receive and consequently is obligated to complete a training program.

The health and safety training program includes an initial step of general training, in addition to which further specific training must be conducted in relation to the risks associated with the tasks and work environments characteristic of the activity. Participation in these courses is mandatory to access internship activities.

The **general training course in health and safety at work** meets the requirements set out by Legislative Decree no. 81/2008 and subsequent amendments and additions, and the current State-Regions Agreements, and is delivered via e-learning. The course lasts 4 hours, dedicated to presenting general concepts on prevention and workplace safety. It includes ongoing self-assessment tests and a final test to evaluate the knowledge acquired during the course, enabling the issuance of the final training certificate.

The registration of students for the general training course is done directly by the Università Cattolica del Sacro Cuore following enrollment. Each student receives all the information, the link to the platform, and access credentials via their institutional email to complete the course, which is mandatory before starting their professional internship.

General training does not require updates as it constitutes a permanent educational credit and has been designed to be valid for any work sector. It can be recognized by companies that require it for their employees, as provided by Article 37 of Legislative Decree no. 81/2008 and subsequent amendments and additions, and the State-Regions Agreement.

Students who have already attended the general safety training course in other contexts (work or academic) as required by Legislative Decree no. 81/2008 and subsequent amendments and additions, can request recognition of the training by submitting a copy of the attendance certificate to: ser.sicurezza-rm@unicatt.it. The subject line should read "safety certificate: SURNAME and student ID," and the email must include the certificate, name, surname, tax code, student ID, and course of study.

The Università Cattolica del Sacro Cuore verifies the validity of the certificate and communicates the outcome. If favorable, the student is exempt from the general training course obligation.

General training is a prerequisite for the specific training course.

Specific training, in accordance with the current State-Regions Agreements, lasts 4, 8, or 12 hours, determined by the Poliambilanza’s risk classification based on the occupational risks present in the work environments (low, medium, or high risk) and the task performed by the worker or equivalent worker.

Specific training can be delivered both via e-learning and in-person, based on the company’s risk class. This training is valid for 5 years, after which an update of no less than 6 hours must be completed.

Specific training delves into the occupational risks a worker may be exposed to during their activity, potential damages, and the prevention and protection measures to be adopted. It explicitly addresses the unique content and situations characteristic of the daily operations and health and safety organization specific to each company. Therefore, the specific training course is designed and delivered directly by the teaching site where the professional internship takes place, which will provide students with relevant information regarding the delivery methods and duration of the training based on the risks present in the specific work context.

STUDENT RECORDS AND ACADEMIC SUPPORT SERVICES

The Student Records and Academic Support Services manage academic records and oversee the organisation of the Faculty of Medicine and Surgery's Degree Programme.

Contact information

Location: Largo Francesco Vito, 1 – 00168 Roma (Istituti Biologici)

Tel: 06/30154757

e-mail: gestione.carriera.studenti-rm@unicatt.it

Officer in charge: Dott.ssa Francesca Mencarelli

Article 9 – Administrative Management of the Degree Program

1. The administrative headquarters of the program is at the Università Cattolica del Sacro Cuore, Faculty of Medicine and Surgery "A. Gemelli", with the teaching venue located at the "Fondazione Poliambulanza Istituto Ospedaliero" in Brescia.

(AGREEMENT FOR THE ACTIVATION AND MANAGEMENT OF THE MASTER'S DEGREE PROGRAM IN APPLIED BIOLOGY AND INNOVATIONS IN REGENERATIVE MEDICINE – LM-9)

STUDENT SERVICES CENTRE (POLO STUDENTI)

The Student Center (Polo Studenti) is responsible for the administrative management of student careers from registration to the achievement of the title. It is the reference structure that students can contact for:

- general information on your career
- monitoring and career changes (transfers, courses, interruptions of studies, validation, study plans, etc.)
- registration contributions (payments, refunds, etc.)
- certificates

It is possible to contact Polo Studenti through the personal page of the iCatt portal using the "Request information" function in the "Communications for you" box.

The Student Center observes the following opening hours:

- Monday: from 9:30 a.m. to 2:00 p.m.
- Tuesday: from 1:00 a.m. to 4:00 p.m.
- Wednesday: from 9:30 a.m. to 2:00 p.m.
- Thursday: from 1:00 a.m. to 4:00 p.m.
- Friday: from 9:30 a.m. to 12:00 a.m.

At the Student Center there is also a public service by appointment via telematics (Microsoft Teams), which students can book in all cases where the presence of the interested party is not required at the counters.

The booking system, in which it is necessary to indicate the object of the appointment, allows you to reserve a slot time of 15 minutes in which the operator will give specific assistance to the request.

Students can send appointment requests through the following link <https://gestionecode.unicatt.it/qmsui-prebooking-client/inner/prebooking.xhtml> , by booking by 23:59 of the two days before the date of the appointment.

Contacts:

Polo Studenti Rome Campus: University Building "Giovanni XXIII", Largo Francesco Vito, 1 - 00168 Rome

Tel: 06.77644.644 (Monday to Friday from 8:00 to 19:00)

USEFUL INFORMATION

Faculty office hours

Faculty office hours provide an important opportunity for faculty and students to meet outside of class. During these meetings students can clear up doubts about course content as well as get advice on how best to manage their studies. Office hours are published on Faculty personal online pages.

STUDENT SERVICES

At Università Cattolica, students can rely not only on high-quality and rigorous academic programs but also on a wide range of services and cultural and recreational initiatives, continuously developed and improved. These services aim to support students in their academic activities and to provide adequate assistance, especially during the most demanding phases of their university career.

Student Center Services

The *Student Center Services* gathers all administrative and secretarial functions supporting students throughout their academic journey, from enrollment to graduation, in a single location.

Access to services is by appointment, which can be scheduled through the student's personal *iCatt* page.

iCatt

Among the services offered by the University is *iCatt*, the student's personal webpage; a virtual space where students can find important information about their academic career and access University services. Through the *iCatt* page, students can submit their study plans, contact the Student Hub, and access Blackboard, the virtual platform where course materials uploaded by professors are available.

iCatt is also available as a mobile app.

The ***iCatt Mobile*** app is a free application developed by Università Cattolica for students at the Milan, Brescia, Piacenza, and Rome campuses, enhancing the advanced and remote services offered by the University. It is available for download from the App Store.

Information about the app's features and usage is available on the University's website (www.unicatt.it).

Useful Contacts and Services on the University Website:

- **LIBRARY** documenti.delivery-rm@unicatt.it , library management biblioteca-rm@unicatt.it tel. 06/30154057
- **ORIENTATION SERVICE** orientamento-rm@unicatt.it tel. 06/30155720
- **STAGE & PLACEMENT** tel.06/30154480 - 4590
- **UCSC INTERNATIONAL** (International Mobility Programs) ucsc.international-rm@unicatt.it tel. 06/30155819
- **ILAB** - Center for Innovation and Development of Teaching and Technological Activities (ICT courses and Blackboard) <http://blackboard.unicatt.it>
- **SeLdA** - University Language Service: <https://roma.unicatt.it/servizi-servizio-linguistico-selda> gerit.berger@unicatt.it tel. 06/30156812
- **INCLUSION SERVICES** (at Student center services) segreteria.disabili-rm@unicatt.it ; segreteria.dsa-rm@unicatt.it
- **PUBLIC RELATIONS OFFICE (URP):** rapporti.pubblico-rm@unicatt.it
- **EDUCATT** – University Student Welfare Agency: info.rm.dsu@educatt.it tel. 06/30155708
- **PASTORAL CENTER** centro.pastorale-rm@unicatt.it tel. 06/30154258
- **PART-TIME STUDENT WORK OPPORTUNITIES:** tutordigruppo-rm@unicatt.it tel. 06/30155723

UNIVERSITY STAFF

Università Cattolica staff are at the service of those who use the university. The staff ensures that suitable conditions exist for university services and offices to be used to the full. Staff from Student Services, the library and the logistics office are authorised to enforce regulations regarding the proper use of offices and spaces in the university.

University staff, and security staff in particular, may take measures to prevent or limit any disruption occurring on university premises (Article 47 of Royal Decree 1269/1938). The reports that they file on such events will carry the same validity as a police report.

Università Cattolica staff have specific instructions not to submit documentation on behalf of others or to act on behalf of students for any other procedures at Student Services.

Guarantee of Essential Services

Legislation on the exercise of the right to strike within essential public services and on the protection of personal rights as guaranteed by the constitution – Law No. 146/1990 and Law No. 83/2000 and later changes and additions thereto.

Università Cattolica del Sacro Cuore guarantees continuity of the following essential services for university education, in line with the values and rights guaranteed by Italian constitution:

- registration and enrolment in university programmes and courses;
- final examinations, final degree examinations and public examinations;
- examinations for annual and semester courses;
- certification to take part in competitive examinations (concorsi) where documented urgency exists of imminent competition deadlines.

PERSONAL INJURY ON CAMPUS

First aid kits are located around the campus to treat small injuries. For serious injuries, students should go to the A&E department of the University Hospital or in an emergency the Health Emergency Services should be called (Extension number 5555).

The A&E department of the A. Gemelli University Hospital is located in the DEA building and is clearly signposted within the campus. Procedures are in place to record accidents happening to staff who are external to the university.

Accidents resulting from biological exposure require the use of different resources, given the specific nature of the type of injury and possible repercussions. In such cases, students must refer to the guidelines found in the Operating Instructions issued by Policlinico Gemelli Foundation IRCCS.

EARTHQUAKES

In the event of an earthquake:

- seek shelter under a table or desk or below a door frame;
- keep clear of bookshelves or other furniture that may fall;
- stay away from windows and glass doors;
- if inside, remain where you are until the tremor ceases;
- if outside, keep as far away as possible from buildings, trees and electric power lines.

THEFT OR ASSAULT

In the event of theft or assault, Security Services should be called: 06 3015 3373.

OTHER USEFUL UNIVERSITY SERVICES

Main university number	06-3015.... (add extension numbers below)
Health Emergency	5555
Central Emergency Management	4000
University Health and Safety Service	5256 – 5809
Fire Safety Unit	5311 – 4683
Security Services	3373
Maintenance Service	5000
Accident and Emergency	4030 – 4031 – 4034
Health Centre	4997 – 4772

CODE OF CONDUCT

University regulations require that students conduct themselves without infringing the personal dignity and honour of others and in line with the spiritual values of the University.

Disciplinary sanctions may be applied to anyone not adhering to the code of conduct. Sanctions will vary depending on how serious the breach of the code of conduct is (see Title I General Rules, 18bis – Disciplinary responsibilities regarding students, in the University Academic Regulations).

Sanctions are decided by the relevant academic bodies in line with procedures which guarantee the individual's right to defence, and in line with current relevant general criteria.

HEALTH, SAFETY AND THE ENVIRONMENT

As set out in its mission, the University's strategic objective regarding health, safety and the environment is directed towards the protection of employees, teaching staff, assistant professors, specialising students, doctoral candidates, interns, scholarship students, students and visitors, as well as the protection of the environment and of anything that is used to carry out University work.

Teaching staff, students and administrative personnel are all expected to be involved in working towards this objective regarding health, safety and the environment, by carrying out regular checks that health and safety measures are being enforced in the workplace and that procedures are communicated adequately and being properly applied. It is everyone's responsibility to inform the relevant authorities of any shortcoming in safety measures or lack of training or information, and to work together with the relevant services for the stipulation and continuous improvement of methods and procedures for carrying out university work.

As set out in Legislative Decree 81/80 and subsequent changes and additions, students are considered as staff with regard to contributing to the improvement of safety measures relating to:

- compliance with rules and instructions given for personal safety and for the protection of others;
- the correct use of machinery, equipment, apparatus, substances and safety devices;
- the correct use of available means of protection;
- immediate reporting to relevant personnel regarding any inadequate tools and equipment as well as any hazardous conditions observed;
- taking action in an emergency, as far as competencies permit, in order to eliminate or reduce any inadequacy or danger;
- unauthorised removal or alteration of any safety device, checking device or alarm;
- unauthorised actions which may put yourself or others in danger;
- undertaking medical check-ups when necessary;
- taking part in training courses organised by the university regarding safety in the workplace;
- contributing to compliance with all health and safety rules;
- conduct which may cause danger to yourself or to others.

Examples of safe conduct

- *in corridors, on the stairs and in lobbies*: do not run; do not leave objects where they might block passageways; leave passageways and emergency exits clear;
- *in institutes, laboratories and libraries*: carefully follow all instructions given by those in charge before using any equipment, apparatus etc.; read and follow the rules and instructions for use and safety instructions; do not use personal equipment or apparatus without specific approval from those in charge; do not carry out unauthorised activities or activities not connected with educational objectives;
- *in spaces where there is specific signage*: do not smoke, do not use naked flames, and do not enter where there is a no entry sign;
- *if buildings have to be evacuated* (a warning message will be heard via loudspeaker): keep calm, immediately inform those present of the emergency and/or call the relevant phone numbers, listen to the instructions given by those in

charge, do not use lifts/elevators, follow specific emergency signs to outside spaces, move quickly to the nearest assembly point (shown in the emergency plans displayed in the building), check that all those who were with you have managed to reach safety, inform the emergency team if anyone is missing

EMERGENCIES

Fondazione Policlinico Agostino Gemelli Safety and Fire-fighting Unit is on duty 24 hours a day, including at weekends and during university closure. The unit is in charge of coordinating actions to contain emergency situations such as fires, flooding, gas leaks and hazardous situations caused by any type of accidental breakage.

All students must do as instructed by the coordinator dealing with any particular emergency. Central Emergency Management can be contacted on extension 4000 from a fixed line in the University or on 06 3015 4000 from any other phone; callers will be asked to provide personal information (name, position etc.), information about the type of danger/threat or emergency underway, the number of people involved, as well as a general assessment regarding the gravity of the situation. The caller must keep connected to Central Emergency Management until instructed to hang up.

Plans showing emergency exit routes are posted in all passageways with instructions of what to do in an emergency.

Smoking is not permitted

There is a no-smoking regulation in force in all work spaces on University premises. The head of the University Security Services is responsible for the enforcement of this rule and operates with the support of the Security Guards.

Tel: 06 3015 4288

PROTECTION OF PERSONAL DATA

Università Cattolica has adopted appropriate structural, logical and organisational measures regarding the delivery of its services to ensure respect for patients' rights, fundamental freedom and dignity, as well as patients' confidentiality. One of the specific organisational measures taken is the setting down of a code of conduct to ensure that patient data is kept confidential. This code of conduct applies to both healthcare professionals and University Cattolica staff that handle data/personal information. Students are expected to respect and adopt this code in all academic and professional activities. The most important rules to follow are the following:

1. all data that comes into your possession should be considered as confidential and, as such, according to law, subject to professional secrecy. Therefore, the code of conduct must be adhered to for each individual work phase so that data is not lost or accessed by unauthorized individuals;
2. data must only be used for the purposes for which they were collected i.e. prevention, diagnosis and treatment, and generally for the protection of the health of the patient;
3. conduct during consultations with patients should be carried out in such a manner that no information which may reveal their state of health comes to the knowledge of a third party;
4. to protect patients' interests, medical records, medical reports and any other documentation that includes health information must be stored in a safe place and in any event in a location that ensures that the information remains confidential. To this end, the information pertaining to the health status of a patient may be disclosed only to the patient or to persons specifically named by the patient;
5. data regarding genetic identity must be handled exclusively within protected spaces accessible only to those dealing with the treatment and to those specifically authorized to access them;
6. the greatest care must be taken with regard to bone marrow donors who, under Law No. 52 dated 6 March 2001, have the right and duty to remain anonymous both to the receiver of the transplant and to third parties.

Personal Data Protection Legislation

(Legislative Decree No. 196, 30 June 2003 - EU Regulation 2016/679 General Data Protection Regulation - GDPR)

This section gives general information about legislation regarding the protection of personal data as set out in Legislative Decree No. 196 of 30 June 2003, 'Personal Data Protection Regulations' and in EU Regulation 2016/679 General Data Protection Regulation (GDPR). It is a guide for students who come into contact with information about the state of health and the sexual life of a patient while carrying out their studies. This information is usually considered to be the most private and sensitive of personal data since it exposes the individual and may document weaknesses, which may lead to a real risk of social discrimination.

Considering this critical aspect and given all the regulations governing data protection, when students come into contact with sensitive information during the course of their studies they are required to adhere to the code of conduct set out for University healthcare staff responsible for the handling of data.

To ensure that the purpose and aim of the legislation are fully understood, the main points of the regulations are described below.

Purpose of the data protection legislation

The life of an individual can be contained in a cluster of information which on the one hand can identify the person, but on the other hand, if not properly protected, can expose the person to risk of discrimination because of their particular opinions, religious beliefs or state of health. It is for this reason that the right to privacy is essential in an equal society.

The dynamic changes in technology and culture, and the interconnections between various sectors of today's society e.g. health, finance, telecommunications, politics, business and so on, mean that the concept of privacy has evolved, leading to the emergence

of a strong connection between privacy and the right to liberty, equality, dignity, and democracy as guaranteed by the Constitution. The concept has developed to the point that the traditional definition of privacy as ‘the right to be left alone’ has been superseded.

Article 1 of the data protection legislation establishes in fact that every person has the right to the protection of their personal data. This right is recognised as a new form a personal liberty, or rather the freedom to have control over the dissemination of one’s personal data. In the system of protection foreseen by the legislation, therefore, individuals have the right of control over their personal information, the right to confidentiality and the right to a private life — all being expressions of the right to privacy.

What is personal data?

The basic concept on which the legislation is based is the concept of ‘personal data’ (Article 4, (b), of Legislative Decree No. 196/2003): personal data is any information pertaining to a person, a legal entity, organisation or association, identified or identifiable, even indirectly through reference to any other information, including a personal ID number.

A further aspect of this concept is that of ‘sensitive data’, which is information pertaining to the utmost personal sphere of an individual, defined in the legislation as personal data which may reveal racial and ethnic origin, religious, philosophical or other beliefs, political opinions, membership of political parties, unions, associations or religious, philosophical, political or union organisations as well as personal data that may reveal an individual’s state of health and sexual life.

Of particular interest here are the regulations for handling sensitive data in healthcare situations and the related civil and legal responsibility.

What does ‘handling personal data’ mean?

In the legislation (Article 4, No. 1, (b)), ‘handling personal data’ is defined as any operation or group of operations undertaken with or without the use of a computer or an automated procedure, which concern the operations involved in the gathering, recording, organisation, archiving, consultation, processing, alteration, selection, extraction, comparison, use, interconnecting, blocking, communication, dissemination, cancellation and destruction of data even if such data are not recorded on a database.

‘Handling personal data’ therefore refers to all operations which form part of the life cycle of a piece of information, from gathering to destruction. It is pointed out that even a simple viewing of data comes within the activity of ‘handling personal data’.

Responsibilities

Those involved in dealing with personal data as set out in the legislation are as follows:

- The sole holder of ultimate responsibility for handling data, i.e. Università Cattolica del Sacro Cuore, a statutory body with no shareholders, whose functions in this regard are performed by the director of the Rome Campus for the Rome Campus and by the director of the A. Gemelli University Hospital for the A. Gemelli University Hospital and all connected facilities;
- Data controllers i.e. the directors of the various departments and institutes who have been given the responsibility of dealing with personal data by the Campus Director and the Director of the university hospital;
- Authorised data processors i.e. all personnel who actually handle personal information whilst carrying out the work.

Sanctions

The legislation provides for the application of severe sanctions for any breach of the regulations, and sets out legal sanctions and a specific set of norms for civil responsibility, as well as specific administrative sanctions.

LEGISLATION ON CONSCIENTIOUS OBJECTION TO ANIMAL EXPERIMENTATION
(Law No. 413, 12 October 1993)

This legislation provides for University students, as well as medical and health personnel, to register their conscientious objection towards any activity connected with animal experimentation.

Students wishing to register their objection should submit their statement of conscientious objection to the faculty teaching the course in question. The relevant form is available at the Centre for Experimental Research (Centro Ricerche Sperimentali).



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

Annex A – STUDY PLAN A.Y. 2025/2026

Regolamenti Didattici

30 luglio 2025

Sede: Fondazione Poliambulanza Istituto Ospedaliero (CREM)-BRESCIA

Corso di Studio: Innovations in Biotechnology applied to regenerative medicine - 3RCB [DM270]

Ordinamento: 3RCB-25

Regolamento: 3RCB-25-25

Percorso: 3RCB-23-99

Totale Crediti Obbligatori 108

Totale Crediti Opzionali 32

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1	AB000097	THEOLOGY (SEMINARIAL COURSE)	Annualità	0,00	AB000098	THEOLOGY (SEMINARIAL COURSE)	NN	Annualità	F	30,00	0,00	OBB
	AB000002	ADVANCED STEM CELL BIOLOGY	Primo Semestre	8,00	AB000025	GENOME EDITING AND STEM CELL REPROGRAMMING	BIO/11	Primo Semestre	B	24,00	3,00	OBB
					AB000027	MECHANOBIOLOGY AND SIGNAL TRANSDUCTION	BIO/13	Primo Semestre	B	16,00	2,00	OBB
					A002592	OMIC PROFILING OF STEM CELLS	BIO/11	Primo Semestre	B	24,00	3,00	OBB
	AB000004	ANALYTICAL TOOLS IN APPLIED BIOLOGY	Primo Semestre	10,00	A002593	BASICS OF IMAGING AND SPECTROSCOPY	FIS/01	Primo Semestre	B	24,00	3,00	OBB
					AB000036	FUNDAMENTALS OF PROGRAMMING FOR BIOLOGICAL SCIENCES	ING-INF/05	Primo Semestre	B	24,00	3,00	OBB
					AB000043	MACHINE LEARNING FOR BIOLOGICAL SCIENCES	ING-INF/05	Primo Semestre	B	16,00	2,00	OBB
					AB000038	PROTEIN MODELING	BIO/10	Primo Semestre	B	16,00	2,00	OBB
	A002635	BASIC LABORATORY	Primo Semestre	2,00	A002642	INTRODUCTION TO LABORATORY PRACTICE	NN	Primo Semestre	C	25,00	1,00	OBB
					A002637	LABORATORY SAFETY	NN	Primo Semestre	C	8,00	1,00	OBB
	A002634	SCIENTIFIC ENGLISH	Primo Semestre	2,00	A002634	SCIENTIFIC ENGLISH	L-LIN/12	Primo Semestre	B	16,00	2,00	OBB
	AB000001	THE REVOLUTION OF STEM CELL RESEARCH	Primo Semestre	10,00	AB000020	CELLULAR SECRETOME: COMPONENTS AND PROPERTIES	BIO/13	Primo Semestre	B	16,00	2,00	OBB

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					AB000021	CELLULAR SECRETOME: COMPONENTS AND PROPERTIES LAB	BIO/13	Primo Semestre	B	25,00	1,00	OBB
					AB000017	STEM CELL BIOLOGY	BIO/13	Primo Semestre	B	16,00	2,00	OBB
					AB000019	STEM CELL BIOLOGY LAB	BIO/13	Primo Semestre	B	25,00	1,00	OBB
					AB000023	STEM CELL RESEARCH: AN ANTROPOLOGICAL QUESTION	MED/43	Primo Semestre	B	16,00	2,00	OBB
					AB000022	TISSUE REGENERATION DURING EVOLUTION: FROM INVERTEBRATES TO VERTEBRATES	BIO/13	Primo Semestre	B	16,00	2,00	OBB
	AB000008	BIOMATERIALS AND TISSUE ENGINEERING	Secondo Semestre	8,00	A002623	NANOMATERIALS	FIS/03	Secondo Semestre	C	24,00	3,00	OBB
					A002625	PRINCIPLES OF BIOMATERIAL ENGINEERING AND SCAFFOLD DESIGN	ING-IND/34	Secondo Semestre	B	16,00	2,00	OBB
					AB000066	SCIENCE AT THE NANOSCALE: PHYSICS AND CHEMISTRY OF SURFACES	FIS/03	Secondo Semestre	C	24,00	3,00	OBB
	AB000003	MECHANISMS OF DEGENERATION AND REGENERATION	Secondo Semestre	9,00	AB000030	CELLULAR BASIS OF DEGENERATIVE PROCESSES	BIO/13	Secondo Semestre	B	8,00	1,00	OBB
					AB000031	CELLULAR BASIS OF DEGENERATIVE PROCESSES LAB	BIO/13	Secondo Semestre	B	25,00	1,00	OBB
					AB000034	CELLULAR BASIS OF REGENERATIVE PROCESSES	BIO/13	Secondo Semestre	B	24,00	3,00	OBB
					A002595	ENVIRONMENTAL TOXICANTS IN TISSUE DEGENERATION	BIO/07	Secondo Semestre	C	16,00	2,00	OBB
					AB000032	INFLAMMATION IN TISSUE DEGENERATION (INFLAMMAGING)	MED/04	Secondo Semestre	B	16,00	2,00	OBB
	AB000007	TRANSLATING STEM CELL RESEARCH FROM BENCH TO BED	Secondo Semestre	10,00	AB000055	BASICS OF APPLIED ECONOMICS	SECS-P/06	Secondo Semestre	B	16,00	2,00	OBB

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					AB000058	INTRODUCTION TO ETHICS IN CLINICAL TRIALS: ETHICAL COMMITTEES	MED/43	Secondo Semestre	B	16,00	2,00	OBB
					AB000059	REGULATORY ASPECTS IN ATMPs AND BEYOND	IUS/14	Secondo Semestre	B	16,00	2,00	OBB
					AB000057	TECHNOLOGY TRANSFER IN BIOTECHNOLOGY	SECS-P/06	Secondo Semestre	B	16,00	2,00	OBB
					AB000053	TRANSLATING INTO THE CLINICS: RESEARCH PROCESSES AND PHASES OF CLINICAL TRIALS	IUS/14	Secondo Semestre	B	16,00	2,00	OBB
	A002627	TRANSLATIONAL INSIGHTS: ANALYSIS OF CURRENT SCIENCE, GRANT PREPARATION AND INTELLECTUAL PROPERTY IN REGENERATIVE MEDICINE	Secondo Semestre	8,00	A002628	ACADEMIC GRANT WRITING FOR REGENERATIVE MEDICINE APPLICATIONS: SALIENT FEATURES OF A SUCCESSFUL PROPOSAL	BIO/13	Secondo Semestre	B	16,00	2,00	OBB
					A002630	ACADEMIC GRANT WRITING FOR REGENERATIVE MEDICINE APPLICATIONS: SALIENT FEATURES OF A SUCCESSFUL PROPOSAL LAB	BIO/13	Secondo Semestre	B	25,00	1,00	OBB
					A002631	CRITICAL REASONING - ANALYSIS OF CURRENT SCIENCE	NN	Secondo Semestre	C	16,00	2,00	OBB
					A002632	CRITICAL REASONING - ANALYSIS OF CURRENT SCIENCE LAB	NN	Secondo Semestre	C	25,00	1,00	OBB
					A002633	THE PROCESSES OF PATENT APPLICATION	IUS/04	Secondo Semestre	B	16,00	2,00	OBB
2	AB000016	EXPERIMENTAL THESIS	Annualità	14,00	AB000016	EXPERIMENTAL THESIS	PROFIN_S	Annualità	E	350,00	14,00	OBB
	AB000011	FROM IN VITRO TO IN VIVO PRECLINICAL MODELS, TOWARDS CLINICAL APPLICATIONS	Primo Semestre	8,00	AB000046	ADVANCED THERAPIES IN IMMUNE-RELATED DISEASES	MED/16	Primo Semestre	C	16,00	2,00	OBB
					AB000045	ANIMAL MODELS FOR REGENERATIVE MEDICINE	VET/02	Primo Semestre	B	8,00	1,00	OBB



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					AB000037	MICROFLUIDIC-BASED MODELS: ORGAN ON CHIP, HUMAN ON CHIP, BIOREACTORS	FIS/01	Primo Semestre	B	8,00	1,00	OBB
					AB000035	MODELING NEURODEGENERATIVE DISORDERS	BIO/09	Primo Semestre	B	16,00	2,00	OBB
					AB000040	STATISTICS AND MATHEMATICAL MODELS IN BIOLOGY	MAT/07	Primo Semestre	C	16,00	2,00	OBB
	A002622	LANGUAGE SKILLS FOR WORKPLACE INTEGRATION	Primo Semestre	2,00	A002622	LANGUAGE SKILLS FOR WORKPLACE INTEGRATION	NN	Primo Semestre	F	16,00	2,00	OBB
	A002643	LABORATORY 1: CELLULAR AND MOLECULAR BIOLOGY LABORATORIES	Secondo Semestre	5,00	AB000047	CELL CULTURE LAB: CELL ISOLATION AND CULTURE	BIO/13	Secondo Semestre	B	50,00	2,00	OBB
					A002644	MOLECULAR BIOLOGY LAB	BIO/13	Secondo Semestre	B	75,00	3,00	OBB
	A002645	LABORATORY 2: ADVANCED IMAGING AND PRECLINICAL STUDIES LABORATORIES	Secondo Semestre	10,00	AB000052	ADVANCES IN IMAGING AND SPECTROSCOPY	FIS/01	Secondo Semestre	B	75,00	3,00	OBB
					AB000084	ANIMAL EXPERIMENTATION	VET/02	Secondo Semestre	B	50,00	2,00	OBB
					AB000054	FLOW CYTOMETRY	BIO/13	Secondo Semestre	B	50,00	2,00	OBB
					AB000050	IMAGING IN CELL BIOLOGY: TECHNIQUES, TECHNOLOGY AND TOOLS	BIO/13	Secondo Semestre	B	75,00	3,00	OBB
	AB000063	SCIENTIFIC ENGLISH FOR BIOMEDICAL COMMUNICATION IN THE FIELD OF BIOLOGY AND REGENERATIVE MEDICINE	Secondo Semestre	2,00	AB000063	SCIENTIFIC ENGLISH FOR BIOMEDICAL COMMUNICATION IN THE FIELD OF BIOLOGY AND REGENERATIVE MEDICINE	L-LIN/12	Secondo Semestre	B	16,00	2,00	OBB
	AB000061	STAGES AND INTERNSHIPS ABROAD	Secondo Semestre	4,00	AB000062	LEARNING INNOVATIONS: HANDS ON INDUSTRIAL PROCESSES	NN	Secondo Semestre	F	100,00	4,00	OPZ
	AB000056	STAGES AND INTERNSHIPS IN ITALY	Secondo Semestre	4,00	AB000060	LEARNING INNOVATIONS: HANDS ON INDUSTRIAL PROCESSES	NN	Secondo Semestre	F	100,00	4,00	OPZ
	AB000070	ADVANCED CELL THERAPY IN SKIN REGENERATION	Primo Semestre	1,00	AB000070	ADVANCED CELL THERAPY IN SKIN REGENERATION	BIO/13	Primo Semestre	D	8,00	1,00	OPZ

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	AB000086	ADVANCES IN TISSUE ENGINEERING	Primo Semestre	2,00	AB000086	ADVANCES IN TISSUE ENGINEERING	ING-IND/22	Primo Semestre	D	16,00	2,00	OPZ
	AB000081	APPLICATIONS IN GYNAECOLOGY AND OBSTETRICS	Primo Semestre	1,00	AB000081	APPLICATIONS IN GYNAECOLOGY AND OBSTETRICS	MED/40	Primo Semestre	D	8,00	1,00	OPZ
	AB000072	APPLICATIONS IN OPHTHALMOLOGY	Primo Semestre	1,00	AB000072	APPLICATIONS IN OPHTHALMOLOGY	MED/30	Primo Semestre	D	8,00	1,00	OPZ
	A000876	ARTIFICIAL INTELLIGENCE AND BIG DATA IN NOVEL ALGORITHMS FOR REGENERATIVE MEDICINE APPLICATIONS	Primo Semestre	1,00	A000876	ARTIFICIAL INTELLIGENCE AND BIG DATA IN NOVEL ALGORITHMS FOR REGENERATIVE MEDICINE APPLICATIONS	MED/36	Primo Semestre	D	8,00	1,00	OPZ
	A000818	ATMP: THE REGULATORY JOURNEY TO GO FROM BENCH TO BEDSIDE	Primo Semestre	2,00	A000818	ATMP: THE REGULATORY JOURNEY TO GO FROM BENCH TO BEDSIDE	MED/46	Primo Semestre	D	16,00	2,00	OPZ
	AB000065	BIOINFORMATICS AND BIOSTATISTICS	Primo Semestre	1,00	AB000065	BIOINFORMATICS AND BIOSTATISTICS	MAT/07	Primo Semestre	D	8,00	1,00	OPZ
	A000815	BIOTECHNOLOGY APPROACHES TO TREAT CANCER	Primo Semestre	1,00	A000815	BIOTECHNOLOGY APPROACHES TO TREAT CANCER	BIO/13	Primo Semestre	D	8,00	1,00	OPZ
	A000877	CELL GUIDANCE SIGNALS, IN DEVELOPMENT AND TISSUE REGENERATION	Primo Semestre	1,00	A000877	CELL GUIDANCE SIGNALS, IN DEVELOPMENT AND TISSUE REGENERATION	BIO/17	Primo Semestre	D	8,00	1,00	OPZ
	A000816	CELL THERAPIES IN HEMATOLOGY	Primo Semestre	1,00	A000816	CELL THERAPIES IN HEMATOLOGY	MED/15	Primo Semestre	D	8,00	1,00	OPZ
	A000814	CELL-BASED APPROACHES FOR LUNG REGENERATION	Primo Semestre	1,00	A000814	CELL-BASED APPROACHES FOR LUNG REGENERATION	MED/10	Primo Semestre	D	8,00	1,00	OPZ
	A000813	CELLULAR MECHANISMS AND ADVANCED CELL THERAPIES IN CARDIAC REGENERATION	Primo Semestre	1,00	A000813	CELLULAR MECHANISMS AND ADVANCED CELL THERAPIES IN CARDIAC REGENERATION	BIO/13	Primo Semestre	D	8,00	1,00	OPZ
	A000878	ETHICAL ISSUES IN ADVANCED BIOTECHNOLOGIES	Primo Semestre	1,00	A000878	ETHICAL ISSUES IN ADVANCED BIOTECHNOLOGIES	IUS/20	Primo Semestre	D	8,00	1,00	OPZ
	A000817	HEALTH BIOTECH INDUSTRY TODAY: CHALLENGES AND OPPORTUNITIES	Primo Semestre	2,00	A000817	HEALTH BIOTECH INDUSTRY TODAY: CHALLENGES AND OPPORTUNITIES	ING-IND/34	Primo Semestre	D	16,00	2,00	OPZ

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	AB000082	INNOVATIVE THERAPIES IN DENTISTRY AND ORTHODONTICS	Primo Semestre	1,00	AB000082	INNOVATIVE THERAPIES IN DENTISTRY AND ORTHODONTICS	MED/28	Primo Semestre	D	8,00	1,00	OPZ
	A000879	REGENERATIVE MEDICINE STRATEGIES FOR INFLAMMATORY BOWEL DISEASES	Primo Semestre	1,00	A000879	REGENERATIVE MEDICINE STRATEGIES FOR INFLAMMATORY BOWEL DISEASES	MED/09	Primo Semestre	D	8,00	1,00	OPZ
	AB000089	STEM CELL DERIVATIVES AND MECHANISMS OF ACTION	Primo Semestre	2,00	AB000089	STEM CELL DERIVATIVES AND MECHANISMS OF ACTION	BIO/13	Primo Semestre	D	16,00	2,00	OPZ
	AB000064	TISSUE ENGINEERING IN OSTEOCHONDRAL REGENERATION	Primo Semestre	1,00	AB000064	TISSUE ENGINEERING IN OSTEOCHONDRAL REGENERATION	MED/33	Primo Semestre	D	8,00	1,00	OPZ
	AB000087	TREATMENT EFFECT EVALUATION IN QUASI-EXPERIMENTAL SETTINGS	Primo Semestre	2,00	AB000087	TREATMENT EFFECT EVALUATION IN QUASI-EXPERIMENTAL SETTINGS	SECS-P/06	Primo Semestre	D	16,00	2,00	OPZ