



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2024/25**  
**SINGLE-CYCLE DEGREE**  
**Dental Medicine (Classe LM-46)**  
**Enrolled since Academic Year 2023/24**

### **HEADING**

<b>Degree classification - Denomination and code:</b>	LM-46 Dentistry and orthodontics
<b>Degree title:</b>	Dottore Magistrale
<b>Length of course:</b>	6 years
<b>Total number of credits required to complete programme:</b>	360
<b>Years of course currently available:</b>	1st , 2nd
<b>Access procedures:</b>	Cap on student, student selection based on entrance test
<b>Course code:</b>	D54

### **PERSONS/ROLES**

#### **Head of Study Programme**

Prof. Eugenio Brambilla

#### **Tutors - Faculty**

Per l'orientamento:

prof. Andrea Sardella

per la mobilità internazionale e l'Erasmus:

prof. Giulio Rasperini

prof.ssa Claudia Dellavia

dott.ssa Daniela Carmagnola

dott.ssa Cinzia Maria N. Maspero

per i Piani di Studio:

dott.ssa Barbara Manfredi

per i trasferimenti:

dott.ssa Barbara Manfredi

per le tesi di laurea:

prof. Giovanni Lodi

prof.ssa Claudia Dellavia

dott. Dino Re

per laboratori e altre attività:

dott. Dino Re (polo Centrale)

prof. Eugenio Brambilla (polo San Paolo)

per riconoscimento crediti:

dott. Mario Beretta

per tirocini professionalizzanti:

prof. Francesco Spadari (polo Centrale)

prof. Andrea Sardella (polo San Paolo)

prof. Luca Francetti (polo San Paolo - Galeazzi)

#### **Degree Course website**

<https://odontoatria.cdl.unimi.it/it>

#### **Academic Services Office**

Email: [clupd@unimi.it](mailto:clupd@unimi.it)

## CHARACTERISTICS OF DEGREE PROGRAMME

### General and specific learning objectives

The Master's degree programme in Dental Medicine aims to prepare graduates who have a comprehensive scientific understanding, substantial clinical and professional training and the skills to holistically and empathetically plan and perform preventive, diagnostic and therapeutic procedures to deal with mouth, teeth and gum disease.

The Master's degree programme in Dental Medicine instils in graduates the importance of continuous learning and promotes the execution of clinical procedures that are supported by the best available evidence.

Learning objectives: basic subjects provide the foundations for the development of medical and odonto-stomatological competencies, with which they are inseparably linked, with a view to shaping graduates into medical professionals who place care for human health at the centre of their work. In particular, graduates should have acquired:

- the scientific, theoretical and practical knowledge required for dental practitioners under Directive 78/687/EEC; the methodology and mindset necessary to undertake lifelong learning; the methodological bases for scientific research; an adequate degree of professional, decisional and operational autonomy gained through a course of learning characterised by a global approach to issues concerning the oral health of the healthy and of the sick, including with respect to the surrounding physical and social environment;
- the fundamentals of basic sciences, with a view to applying this knowledge in clinical practice; knowledge of general medicine from a physiopathological and clinical perspective; the ability to detect and critically assess information concerning the health or disease of an individual's stomatognathic system (also from a clinical perspective, considering the wider social and cultural picture), and to interpret that information in light of their own knowledge of basic sciences, physiopathology and systemic or stomatognathic diseases; the ability to clearly and empathetically communicate with patients and their family members; the ability to organise teamwork combined with knowledge of related issues, such as communication and human resource management.

### Professional profile and employment opportunities

Upon successful completion of the programme, graduates should be able to:

- practice the full range of general dentistry techniques with a view to the comprehensive treatment of patients, without generating added risks to the patient or to the environment;
- identify treatment priorities according to need and work with others to plan actions aimed at reducing oral disease in the community;
- understand the fundamentals of human pathology (having combined physiopathological and pathological studies with the study of clinical methodologies and diagnostic procedures to evaluate the most common clinical manifestations); understand the therapeutic, medical and surgical procedures complementary to dentistry; understand the basic notions of care and assistance according to the principles of pedagogy, psychology, sociology and ethics;
- differentiate the medicines that are directly and indirectly associated with dental practice and understand the implications of pharmacologically treating systemic pathologies in relation to dental treatment, so as to adequately choose the best medicinal product for each patient;
- understand biomaterials science insofar as it relates to the practice of dentistry;
- control cross-infection so as to prevent physical, chemical and microbiological contamination during dental practice;
- apply the full range of techniques for alleviating dental-related pain and anxiety (within the dentist's permitted limits);
- recognise and deal with any medical urgencies or emergencies which may occur during dental treatment (e.g. high/low blood pressure, hypo/hyperglycaemia, allergic reactions, respiratory arrest, cardiac arrest, etc.);
- analyse the scientific literature and assess its outcomes from a treatment perspective;
- prevent and treat oral and dental diseases, being familiar with the related demographic factors;
- develop an interdisciplinary clinical approach, in partnership with other clinicians in the team, by gaining a heightened understanding of the rules and dynamics that characterise the group work of healthcare practitioners;
- examine issues pertaining to the general organisation of work and its dynamics, bioethics, dentist-patient relationships, patient education and community dental health, including by attending monographic courses and interdisciplinary seminars;
- communicate effectively with patients and educate patients in the best and most effective oral hygiene techniques;
- provide patients with sufficient information based on knowledge accepted across the scientific community when seeking informed consent to treatment;
- correctly interpret legislation concerning the practice of dentistry in the EU country where the dentist is practicing, and provide care in compliance with the medical, legal and ethical regulations applicable in that country;
- understand their own limitations in patient care and recognise the need to refer patients to other practitioners for medical treatment;
- organise and lead the dental team, drawing on the full range of dental auxiliary personnel available to them;
- develop their knowledge in matters of multiethnic community development, in particular concerning variety and diversification of cultural and value-based aspects, including in terms of patient-centred care.

Graduates of the single-cycle Master's degree programme in Dental Medicine must also have attained:

- sufficient knowledge to have a qualitative and quantitative understanding of biological and physiological events; knowledge of the principles of molecular biological processes; scientific and behavioural knowledge underlying modern techniques in oral healthcare and dental treatment; a high degree of ethical and moral responsibility on the part of dentists for the care of patients both as individuals and members of the community; knowledge of applied computer science and statistics to the extent that they can become a useful tool for research and professional development; knowledge of the

principles and indications concerning medical imaging and the clinical use of ionising radiation and the principles of radiation protection;

- an understanding of legal and deontological obligations within the dentistry profession.

Graduates of the Master's degree programme in Dental Medicine take up roles as self-employed dentists or as 1st or 2nd level managers in the Italian National Health Service (in accordance with Italian legislation).

### **Initial knowledge required**

Admission into the programme is capped, at a national level, pursuant to Law no. 264 of 2 August 1999.

To be admitted into the degree programme, a candidate must have a secondary-school diploma, or similar diploma earned overseas and deemed equivalent.

The total number of admissible students is set each year by MUR Decree.

The admission test is a multiple-choice examination which is generated in accordance with a rubric generated by MUR.

The test is held on a date set by MIUR.

Additional learning requirements (OFA):

Students admitted with a total point score under 40/90 and with a score of less than 10/27 on those questions assessing a student's understanding of biology, will be assigned additional learning requirements (OFA). These prerequisites may be met through specifically assigned remedial work. Any failure to complete the OFA will make it impossible for the student to sit for the Biology exam.

Timely notice of the various courses will be posted to: <https://odontoiatria.cdl.unimi.it/it>

Additional learning requirements (OFA): - English-language proficiency (Level B2):

To be permitted to sit for the English-language exam required for the degree programme, students must demonstrate a Level B2 English-language proficiency under the Common European Framework of Reference for Languages (CFER). Such proficiency may be demonstrated as follows:

- by sending a language certificate, earned within three years prior to the date of submission, at a B2 level or higher (for the list of language certificates recognised by the University, please review: <https://www.unimi.it/it/studiare/competenze-linguistiche/placement-test-test-di-ingresso-e-corsi-di-inglese>). The certificate must be uploaded at enrolment, or at some point thereafter, on the student portal: <http://studente.unimi.it/uploadCertificazioniLingue>;

- through a Placement Test, administered by SLAM during Year I, from October to December. Should a student fail the test, he/she must take the course provided by SLAM.

The Placement Test is mandatory for all students who fail to submit a valid certificate.

Those who do not take the Placement Test by December, or who fail to pass the final exam for the course within six (6) attempts, must obtain an outside (paid) certification by the programme year contemplated for their exam in English.

### **Compulsory attendance**

Attendance of all educational activities contemplated in the study programme is mandatory.

To be allowed to sit for the for-credit exam, students must have attended at least 67% of the educational programming contemplated for each course, whether single-discipline or multi-disciplinary course. The lead instructor for the programme will verify that the student has met the attendance requirements.

### **Degree programme final exams**

A Master's degree in Dental Medicine will be awarded to those students who pass a final examination, which includes the presentation and discussion of the student's original thesis on the subject of dentistry, or a dentistry-related topic pulled from either their general-education requirements or clinical experience.

The thesis is both an integral part of the student's six-year academic programme, and its capstone.

The time and effort dedicated to developing and writing one's thesis must be commensurate with the 10 CFU weight assigned to the thesis under the academic programme.

To be permitted to sit for the final exam, students must have earned 350 credits, including the 3 CFU allocated to proficiency in scientific English.

Marks for the final exam are given based on a 110/110 scale.

Thesis-review boards will render their judgement based on the student's entire course of study, the nexus between their academic objectives and internship experience, their general knowledge and acumen, as well as their abilities to express themselves articulately and intelligently.

## **EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM**

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

The agreements entered into by the University with over 300 universities from the 27 EU member countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organizations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

### How to participate in Erasmus mobility programs

The students of the University of Milan can participate in mobility programmes, through a public selection procedure.

Ad hoc commissions will evaluate:

- Academic career
- the candidate's proposed study programme abroad
- his/her foreign language proficiency
- the reasons behind his/her application

Call for applications and informative meetings

The public selection for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organizes informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be supplemented by the University funding for disadvantaged students.

Language courses

Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University Language Centre (SLAM).

<https://www.unimi.it/en/node/8/>

Learn more at <https://www.unimi.it/en/node/274/>

For assistance, please contact:

International Mobility Office

Via Santa Sofia 9 (second floor)

Tel. 02 503 13501-12589-13495-13502

Contacts: InformaStudenti; [mobility.out@unimi.it](mailto:mobility.out@unimi.it)

Student Desk booking through InformaStudenti

<b>1st COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Behavioural sciences and scientific method	17	(2) MED/28, (6) MED/01, (4) M-PSI/01, (4) M-PED/03, (3) INF/01
Biology	7	BIO/13
Chemistry and basic biochemistry	6	BIO/10
Histology	7	BIO/17
Human anatomy and anatomy of the masticatory apparatus	9	BIO/16
Physics	6	FIS/07
	Total compulsory credits	52
<b>Elective courses</b>		
<b>2nd COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Biochemistry and clinical biochemistry	8	(6) BIO/10, (2) BIO/12
Evidence based dentistry	5	(2) MED/28, (2) MED/01, (1) M-FIL/02
General pathology	7	MED/04
Medical english	3	L-LIN/12
Microbiology and hygiene	13	(6) MED/07, (7) MED/42
Physiology	10	BIO/09
Principles of dental medicine and dental materials 1	15	(5) MED/50, (10) MED/28
	Total compulsory credits	61

<b>Elective courses</b>		
<b>3rd COURSE YEAR (available as of academic year 2025/26) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Anesthesiology and medical emergency	9	MED/41
Diagnostic imaging and radiotherapy	6	MED/36
Medical sciences	15	(2) MED/38, (8) MED/09, (1) M-PSI/08, (1) MED/35, (3) MED/05
Pathological anatomy	6	MED/08
Pharmacology	7	BIO/14
Principles of dental medicine and dental materials 2	15	MED/28
Total compulsory credits		58
<b>Elective courses</b>		
<b>4th COURSE YEAR (available as of academic year 2026/27) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Clinical dentistry 1	28	MED/28
Gnatology	4	MED/28
Legal medicine	6	MED/43
Neurology and psychiatry	6	(3) MED/26, (3) MED/25
Oral pathology	9	MED/28
Oral surgery	7	(5) MED/28, (2) MED/18
Total compulsory credits		60
<b>5th COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Ergonomy and management	2	(1) MED/28, (1) SECS-P/10
Implantology	11	MED/28
Maxillofacial pathology and therapy	9	(4) MED/29, (3) MED/28, (1) MED/31, (1) BIO/16
Orthodontics	9	MED/28
Parodontology	6	MED/28
Pediatric dentistry	6	(1) MED/38, (5) MED/28
Removable denture (partial and total)	5	MED/28
Restorative dentistry	12	MED/28
Total compulsory credits		60
<b>6th COURSE YEAR (available as of academic year 2028/29) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Clinical dentistry (Clinical practice)	34	MED/28
Comprehensive dental care	15	(14) MED/28, (1) BIO/14
Total compulsory credits		51
<b>Elective courses</b>		
<b>End of course requirements</b>		
Final exam	10	ND
Total compulsory credits		10