



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2026/27**  
**IN**  
**MEDICINA E CHIRURGIA - INTERNATIONAL MEDICAL SCHOOL**  
**(CLASSE LM-41 R)**  
**Enrolled in 2025/26 Academic Year**

### **HEADING**

<b>Degree classification - Denomination and code:</b>	LM-41 R
<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>Course years currently available:</b>	2°
<b>Access procedures:</b>	Cap on student numbers, student selection based on entrance test
<b>Course code:</b>	DCE

### **PERSONS/ROLES**

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

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#### **Degree Course website**

<https://ims.cdl.unimi.it/en>

#### **Didactic secretary: Dr. Marcella Montagna and Dr. Giovanni Coco**

<https://ims.cdl.unimi.it/en> Email: [ims@unimi.it](mailto:ims@unimi.it)

#### **Link for international students:**

<https://www.unimi.it/en/international/coming-abroad/international-students-office-welcome-desk>

### **CHARACTERISTICS OF DEGREE PROGRAMME**

#### **Introduction**

These regulations apply to the teaching activities and management of the single cycle degree course in Medicine and Surgery known as University of Milan International Medical School (IMS) as part of class LM-41 in the Faculty of Medicine and Surgery at the University of Milan. IMS is based at the LITA-Interdisciplinary Laboratory of Advanced Technologies, in Segrate. The clinical training (years III-IV-V-VI year) is performed at ASST Grande Ospedale Metropolitano Niguarda, as IMS reference hospital, and in other medical centers affiliated with the University of Milan. Duration of the course: six years.

#### **General and specific learning objectives**

The degree course consists of 360 credits overall, spread over a six-year program, of which at least 60 must be acquired in training aimed at the acquisition of specific professional abilities. Graduates in the degree courses in Medicine and Surgery

must have:

- 1) acquired the scientific bases and the necessary theoretical-practical preparation to Directive 75/363/CEE on the practice of the medical profession;
- 2) acquired a level of professional awareness, decisional and operative autonomy safety with a deep sensitivity to the complex human problems and social diseases;
- 3) acquired the theoretical knowledge arising from basic sciences and the ability to properly apply it in the perspective of subsequent professional application;
- 4) acquired the knowledge of physiopathology and organ and apparatus pathologies, interpreting them in the light of basic scientific knowledge from a clinical point of view;
- 5) acquired the competence to properly obtain and examine data and elements related to the state of health and illness of an individual;
- 6) acquired the ability and the experience of facing, and solving, the priority health problems considering the preventive, diagnostic, prognostic, therapeutic and rehabilitative aspects;
- 7) been exposed to the content and methods of scientific research as a tool to access the clinical field, always in the context of a training translational "from bench-to-bedside" and vice versa;
- 8) acquired the knowledge of historic, epistemological and ethical dimension of medicine;
- 9) acquired how to communicate properly and clearly with the patient and his/her relatives relating to them with humanity;
- 10) learnt how to co-operate with the different professional figures in the various health activities they will be exposed to;
- 11) learnt how to apply the principles of health economics in medical decisions and acquired the ability to recognize health problems in the community and intervene in a competent manner.

### **Professional profile and employment opportunities**

The professional profile of our graduates is characterized by a sound scientific knowledge of diseases and diagnostic procedures, by a strong ethical structure, accountability, consciousness of his/her own limitations, understanding of culture diversity, capability to solve urgent health problems, and respect for each individual, regardless of his/her religion, values, race, sex or any other peculiarities. They are supposed to mature a strongly integrated approach to the patient, critically assessing the clinical as much as the relational aspects. During the course they acquire the educational, social and ethical aspects involved in the prevention, diagnosis and treatment of illness, as well as the rehabilitation and recovery of the highest possible level of psychophysical well-being. Our graduates are exposed to the content and methods of scientific research in the context of a translational training aimed at leading them in their lifelong learning and/or in their profession of biomedical scientists. Graduates in the Medicine and Surgery degree courses acquire the professional profile adequate to carry out medical-surgical work in the different professional clinical, health and bio-medical roles and spheres.

The achievement of the IMS degree enables to practice as a physician (Legislative Decree 17-3-2020, n.18, Art.102) and to register in the Italian medical register, upon acquisition of a positive evaluation in the Evaluation Training Internship, as referred to Art.3 of the Decree of the Ministry of Education, University and research (MIUR) 9-5-2018, n.58. Graduates can pursue a medical career in a wide range of clinical, healthcare and bio-medical roles and domains. IMS degree is a prerequisite for entering medical Residencies programs, the School of General Medicine (upon National Admission test) and/or PhD programs (upon Universities Admission test).

### **Pre-requisites for admission**

Practical instructions

All the degree courses in Medicine and Surgery of the Faculty of Medicine and Surgery of the University of Milan have programmed access and require an admission test. Upon the Law 264 date 2.8.1999, the test is the same for all Italian public universities offering an international medical curriculum, and takes place on the same day at the same time all over the world. The main focus of the admission test is to examine and judge the fundamentals of scientific knowledge and reasoning. The number of students who can be admitted is defined annually by a Decree of the Ministry of University and Research (MUR), taking account of the training potential declared by the university on the basis of the teaching and clinical resources and structures available, and also the requirements reported by the Lombardy Region and the Ministry of Health. Candidates who have a High School Diploma, or alternative qualification achieved abroad and recognized as suitable, can be admitted to the single cycle degree courses in Medicine and Surgery. Candidates in eligible positions in the ranking of the admission test must enroll according to the procedure of the university.

Entry test

The admission test is designed by the Italian Ministry of University and Research. The admission test consists of sixty multiple choice questions with five options (of which only one is correct) on the following topics: general knowledge and logical reasoning; biology; chemistry; physics and mathematics.

Additional Formative Obligations (OFA)

Students admitted with a total score of less than 45/90 and who have achieved a score of less than 17,5/34,5 for the questions evaluating the knowledge of Biology, will be assigned additional educational obligations (OFA). These obligations consist in on purpose activities. Failure to pass the OFA will not allow to take the examination of Cells, Molecules and Genes. Details on OFA will be advertised on the website: <https://ims.cdl.unimi.it/en>.

### **Programme structure**

The course of study provides a plurality of learning activities to expose the student to all possible aspects of medical

professionalism. To this aim students attend a Common Track lasting from 1st to the 6th year. At the end of the first semester of the 5th year, students will choose 1 among 10 different multidisciplinary courses (Final Track) designed to provide students an in-depth study of the most relevant health topics. By choosing 1 out of the 10 Final Tracks, the student will be exposed to topics fitting with his/her interest and will acquire a background knowledge to orient themselves in choice of their career and their professional figure, suited to their cultural and personal interests and attitudes.

The course, divided into 12 semesters, delivers 360 CFU:

1) 275 CFU teaching activities scheduled as follows:

- 265 CFU Common Track
- 10 CFU Final Track

Theoretical knowledge will be acquired with different modalities:

- traditional lectures and seminars;
- interactive teaching (small groups of students supervised by a tutor supporting students in acquiring knowledge, abilities and behavioral models by presenting problem that have to be solved by students through adequate decisions - problem based learning (PBL); clinical cases discussion; journal clubs);
- classroom practical activities and laboratories

2) 60 CFU ward clinical activities (in ward or outpatient clinic) to practice medical skills scheduled as follows:

- 33 CFU: Common Track clinical training activities practical medical skills;
- 4 CFU: Final Track clinical training activities practical medical skills related to the main topics of the chosen Track.
- 8 CFU: optional clerkships to be chosen
- 15 CFU: evaluation internships (5th-6th year) subdivided in: 5CFU in Surgery Area, 5CFU Medical Area, 5CFU General medicine area. Positive evaluation is needed to be admitted to graduation and to practice as Physicians.

3) 8 CFU: individually selected activities (Electives) scheduled as follows;

- 5 CFU Common Track Electives
- 3 CFU Final Track Electives

4) 13 CFU: preparation of the final Thesis.

5) 3 CFU: additional language skills

6) 1 CFU: other skills relevant for the medical profession

#### ADMISSION TO THE FOLLOWING YEARS

Only those students who have successfully taken the examinations set out in the table below by the end of the session in September are permitted to move from one year of the course to the next:

To enroll in the III year the following exams must have been taken:

- Functions I – II;

In order to guarantee a productive learning during the professionalizing activities at the bedside for non-native Italian speaking students, to enroll into the third year of the course it is required a level B2 or higher (Common European Framework of Reference for languages - CEFR) certificate of knowledge of Italian language.

To enroll in the IV year the following exams must have been taken:

- Fundamentals of biomedical Imaging;
- Mechanisms of diseases.

To enroll in the V year the following exams must have been taken:

- Fundamentals of clinical medicine 1-2-3
- Fundamental Pharmacology and therapeutics

#### Conscientious objection policy

In compliance with Act No. 413 of October 12, 1993 "Regulations on conscientious objection to animal experimentation", the Faculty of Medicine recognizes the undisputed right to conscientious objection by students. Students may be exonerated from the attendance at laboratory exercises in which testing is scheduled on live or dead animals. The achievement of the scientific and practical knowledge for passing the exams will be granted, in accordance with the educational objectives of the specific degree programs, through substitutive methods suggested by the teachers.

#### Subjects organisation

Both synchronous and asynchronous modalities will be adopted during the course.a) Lectures and seminars

A lecture is the presentation by the teacher of the course content regarded as fundamental for the acquisition of the basic knowledge in a given discipline. A seminar is similar to a lecture but is jointly conducted by the teacher and lecturers with specific expertise, and it is aimed at introducing the students to medical topics with a broad perspective.

With asynchronous modality students learn from learning material (prerecorded video lessons or game-based learning tasks, papers, chapters of textbooks...) that students complete on their own in a given time assigned by the teacher. The

asynchronous modality encompasses a wide variety of instructional interactions with the teacher (email exchanges between teachers, online discussion boards, self-assessments -among many other possible variations-) mandatory to verify the acquisition of knowledge on the topics assigned to students.

#### b) Interactive teaching

Interactive teaching activities geared towards a small group of students and coordinated by a tutor, with a view to facilitating the students in acquiring knowledge, abilities and behavioral models. Learning mainly takes place through the stimuli from the analysis of problems finalized to their solution through adequate decisions. Interactive learning includes: problem-based learning (PBL); clinical cases discussion; journal clubs; practical activities, role playing activities. Interactive teaching takes place also in the clinical wards and laboratories, with the assistance of qualified university or hospital professionals.

#### Elective training chosen by the Student

The course provides training for specific optional topics chosen by the student, available throughout the entire course of study. These selected activities offer the student the opportunity to analyze specific or innovative subjects, choosing from a range of suggestions offered each year by the Faculty. Selected activities may be of different types, and attendance is compulsory. This course will privilege elective courses tailored to education to basic research in the first 2 preclinical years and translational research in the following years. The three types of selected activity are configured-as:

1. seminar type courses;
2. internships;
3. participation in conferences and congresses.

Similarly, a fourth type of selected activity can be configured:

4. residencies in periods of suspension of teaching, whose regulation is covered by Art. 8 of the Faculty Regulations on Selected Activities.

The student will mature 1 credit for every three conferences/congresses attended during the chosen course of study for Type 3 activities (attendance at conferences and congresses). The student can acquire a maximum of 1 credit for attending Type 3 activities (attendance at conferences and congresses) during the period of the chosen studies.

The specific regulation of selected activities can be found in the Faculty Regulations on Selected Activities.

#### **Language test / computer literacy test**

Those who hold an Italian high school diploma or degree will acquire 3 CFU of "Additional Language Skills" through an in-depth study of English provided by SLAM – University of Milan Language Centre.

Students who do not hold an Italian high school diploma or degree must demonstrate proficiency in Italian at the B2 or higher level per the Common European Framework of Reference for Languages (CEFR) in order to be admitted to undertake clinical activities in the third year of the programme. This level must be demonstrated by the end of the second year in one of the following ways:

- by submitting a certificate of B2 or higher level issued no more than three years prior to the date of submission. You will find the list of language certificates recognized by the University at: <https://www.unimi.it/en/node/349/>. The language certificate must be uploaded through the dedicated Platform <http://studente.unimi.it/uploadCertificazioniLingue>;
- via an entry-level test administrated by SLAM – University of Milan Language Centre that can be taken only once at the beginning of the first semester of the first year and is compulsory for all students who do not have a valid language certificate.

Students who demonstrate B2 level in Italian by certificate or the entry-level test will earn the 3 credits of Additional language skills: Italian and may be admitted to the third year of the programme and undertake the clinical activities.

Students who do not have a B2 language certificate or who fail to reach B2 level at the entry-level test will have to attend one or more than one Italian course(s) geared to their level and administrated by SLAM in order to be admitted to the 3rd year, undertake clinical activities and earn the 3 credits of Additional language skills: Italian. Those who do not take the entry-level test or fail to pass the end-of-course test after six attempts will have to obtain language certification privately in order to be admitted to the 3rd year, undertake clinical activities

#### **Compulsory attendance**

The student is required to attend all the teaching activities, with a tolerance of no more than 1/3 of the hours, according to the Regolamento. Students are required to sign their attendance at each learning activities. Should the number of absences be higher than 1/3, the Teaching Committee will take the necessary measures.

#### **Testing and assessment procedures**

Each course has a single exam, which is always individual, and the mark will be expressed in thirtieths.

Ongoing tests (prove in itinere) are also performed, exclusively with a view to confirming the effectiveness of the learning and teaching processes in relation to the course content and do not have any official certifying value.

#### **Degree programme final exam**

The final test enables 13 training credits (CFU) to be acquired and focuses on the discussion of an original thesis written by the student under the guidance of a controlling member of staff (supervisor).

#### **Criteria for admission to degree course final exam**

The degree examination focuses on the discussion of an original thesis written in English by the student under the guidance of a controlling member of staff; an assistant supervisor may also be involved.

The student has to have taken all the examinations set out in the study plan and obtained a total of 347 teaching credits to be admitted to the degree examination.

The final marks, out of a total of 110, are decided by:

- a. the mark for the presentation in the degree session (average out of 110, based on the marks of the overall curriculum);
- b. the score allocated by the degree commission.

The scores allocated to each candidate by the members of the commission are secret. The maximum number of scores that may be allocated by the degree commission is 14, in addition to the average presentation marks. These 14 points are detailed as follows:

up to 5 points for the thesis type (experimental study up to 5 points, case report presentation up to 3 points, case report up to 2 points, compilative study up to 2 points);

1 point for the quality of the presentation;

1 point for the topic mastery and presentation skill;

up to 7 bonus points according to the following criteria: duration of the degree course (1 point); honors (up to 2 points); extracurricular activities (up to 2 points); assessment of practical skills OSCE (up to 2 points).

Candidates whose final mark is at least 113 can obtain full marks with honors (110 cum Laude), only when proposed and unanimously approved by the commission.

## **EXPERIENCE OF STUDY ABROAD AS PART OF THE DEGREE 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 organisations.

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

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

### **Study and internships abroad**

During the Degree course, students can participate to study and internship experiences abroad within the Erasmus + Programme. Students can apply for the recognition of the periods of study abroad as Electives.

The International Medical School set up an "Erasmus Desk" dedicated to students interested in both incoming and outgoing international mobility programmes, both within the Erasmus+ projects (Student Exchange and Traineeship Program) and other non-European mobility programmes, or other internships abroad (Free Movers program). The desk (erasmus.ims@unimi.it) is managed by the Erasmus tutor of the course who supports the students in the choice of the mobility programs, welcomes and manages the requests of foreign students interested in organizing a study/internship period in IMS, and assists both incoming and outgoing students in the drafting of learning agreements.

### **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 organises 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;

Student Desk booking through InformaStudenti

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## **ADMISSION CRITERIA: 1ST YEAR CAP ON STUDENT, STUDENT SELECTION BASED ON ENTRANCE TEST**

### **Links to enrolment information and procedures**

<https://www.unimi.it/it/studiare/frequentare-un-corso-di-laurea/iscriverti/iscriverti-una-prima-laurea>

### **N° of places reserved to non-EU students resident abroad**

15

### **Notes**

#### **INTRODUCTION:**

All IMS students will attend all the Core/Compulsory curriculum courses scheduled from the 1st semester of the 1st year to the 1st semester of the 6th year. During the 2nd semestre fo the 5th year students will chose a multidisciplinary course, the final TRACK, among the 10 options (Tracks from 1 to 10) offered by the IMS school and listed in the Table below. The formal learning activities related to each Track are scheduled in the 1st semester of the 6th year while the track-related clerkships and elective activities are scheduled in the 2nd semester of the 6th year to allow students to perform these activities abroad (exchanges programs).

<b>1° COURSE YEAR (Cancelled since academic year 2026/27) Core/compulsory courses/activities</b>				
<b>Scheduling</b>	<b>Learning activity</b>	<b>Module/teaching unit</b>	<b>Ects</b>	<b>Sector</b>
	Cells, molecules and genes (Total number of ects:6)	Molecular biology	4	BIO/11
		Biology	2	BIO/13
	Fundamentals of basic sciences (Total number of ects:12)	Medical physics	5	FIS/07
		Chemistry and introductory biochemistry	7	BIO/10
	Histology		7	BIO/17
	Anatomy		12	BIO/16
	Biochemistry		6	BIO/10
	Fundamentals of biomedical imaging (Total number of ects:3)	Medical physics	2	FIS/07
		Radiology	1	MED/36
		Total number of compulsory credits/ects	46	
<b>2° COURSE YEAR Core/compulsory courses/activities</b>				
<b>Scheduling</b>	<b>Learning activity</b>	<b>Module/teaching unit</b>	<b>Ects</b>	<b>Sector</b>
1 semester	Functions 1 (Total number of ects:15)	Physiology	9	BIO/09
		Biochemistry	6	BIO/10
1 semester	Genetics (Total number of ects:8)	Biology	4	BIO/13
		Genetics	4	MED/03
1 semester	Microbiology		4	MED/07
2 semester	Functions 2 (Total number of ects:12)	Physiology	8	BIO/09
		Anatomy	4	BIO/16
2 semester	Mechanisms of diseases		14	MED/04
		Total number of compulsory credits/ects	53	
<b>Elective courses</b>				
<b>By the end of 2 years students should acquire 3 more credits in Additional Language Skill:</b>				
2 semester	Additional Language skills (ENG) For italian students		3	NN
2 semester	Additional Language skills (ITA) For foreign students		3	NN
<b>3° COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities</b>				
<b>Scheduling</b>	<b>Learning activity</b>	<b>Module/teaching unit</b>	<b>Ects</b>	<b>Sector</b>
1 semester	Fundamentals of clinical medicine 1 (Total number of ects:14)	Internal medicine	3	MED/09
		Respiratory diseases	3	MED/10
		Cardiovascular diseases	3	MED/11
		Nephrology	3	MED/14
		General surgery	2	MED/18
1 semester	Fundamentals of clinical medicine 1 (Clerkships) (Total number of ects:5)	Internal medicine	1	MED/09
		Respiratory diseases	1	MED/10
		Cardiovascular diseases	1	MED/23
		Nephrology	1	MED/14
		General surgery	1	MED/18
1 semester	Fundamentals of clinical medicine 2 (Total number of ects:5)	Internal medicine	1	MED/09
		Blood diseases	2	MED/15
		Rheumatology	2	MED/16
1 semester	Fundamentals of clinical medicine 2 (Clerkships)		1	MED/16
1 semester	Translational medicine and biotechnologies 1 (Total number of ects:9)	Informatics	2	INF/01
		Molecular biology	1	BIO/11
		Clinical biochemistry	2	BIO/12
		Microbiology	2	MED/07
		Biotechnology and methods in laboratory medicine	2	MED/46
2 semester	Biostatistics		5	MED/01
2 semester	Foundational pharmacological principles		3	BIO/14
2 semester	Fundamentals of clinical medicine 3 (Total number of ects:11)	Gastroenterology	3	MED/12
		Endocrinology	3	MED/13
		Dermatology	3	MED/35
		Physical training sciences and methodology	2	M-EDF/01
2 semester	Fundamentals of clinical medicine 3 (Clerkships) (Total number of ects:3)	Gastroenterology	1	MED/12
		Endocrinology	1	MED/13
		Dermatology	1	MED/35
		Total number of compulsory credits/ects	56	
<b>4° COURSE YEAR (available as of academic year 2028/29) Core/compulsory courses/activities</b>				
<b>Scheduling</b>	<b>Learning activity</b>	<b>Module/teaching unit</b>	<b>Ects</b>	<b>Sector</b>
1 semester	Clinical oncology, hemato-oncology and radiotherapy (Total number of ects:7)	Pharmacology	1	BIO/14
		Medical oncology	3	MED/06
		Pathology	1	MED/08
		Blood diseases	1	MED/15
		Radiology and radiotherapy	1	MED/36

1 semester	Clinical oncology, hemato-oncology and radiotherapy (Clerkships) (Total number of ects:2)	Medical oncology	1	MED/06
		Blood diseases	1	MED/15
1 semester	Fundamentals of pharmacology and therapeutics		3	BIO/14
1 semester	Head and neck (Total number of ects:8)	Human physiology	1	BIO/09
		Anatomy	1	BIO/16
		Odontostomatological diseases	2	MED/28
		Ophthalmological diseases	2	MED/30
		Otorhinolaryngology	2	MED/31
1 semester	Head and neck (Clerkships) (Total number of ects:2)	Ophthalmological diseases	1	MED/30
		Otorhinolaryngology	1	MED/31
1 semester	Infectious diseases (Total number of ects:6)	Pharmacology	1	BIO/14
		Infectious diseases	5	MED/17
1 semester	Infectious diseases (Clerkships)		1	MED/17
1 semester	Orthopedics, traumatology and rehabilitation (Total number of ects:5)	Orthopedics	4	MED/33
		Rehabilitation medicine	1	MED/34
1 semester	Orthopedics, traumatology and rehabilitation (Clerkships)		1	MED/33
2 semester	Clinical and surgical pathology		7	MED/08
2 semester	Clinical and surgical pathology (Clerkships)		1	MED/08
2 semester	Clinical imaging		4	MED/36
2 semester	Clinical imaging (Clerkships)		1	MED/36
2 semester	Medical psychology (Total number of ects:6)	General psychology	3	M-PSI/01
		Psychobiology and physiological psychology	1	M-PSI/02
		Social psychology	1	M-PSI/05
		Clinical psychology	1	M-PSI/08
2 semester	Translational medicine and biotechnologies 2 (Total number of ects:5)	Clinical biochemistry	2	BIO/12
		Clinical pathology	1	MED/05
		Microbiology	1	MED/07
		Biotechnology and methods in laboratory medicine	1	MED/46
		Total number of compulsory credits/ects	59	

### 5° COURSE YEAR (available as of academic year 2029/30) Core/compulsory courses/activities

Scheduling	Learning activity	Module/teaching unit	Ects	Sector
1 semester	Fundamentals of surgery (Total number of ects:11)	General surgery	5	MED/18
		Plastic surgery	1	MED/19
		Thoracic surgery	1	MED/21
		Vascular surgery	1	MED/22
		Cardiac surgery	1	MED/23
		Neurosurgery	1	MED/27
		Maxillofacial surgery	1	MED/29
1 semester	Fundamentals of surgery (Clerkships)		3	MED/18
1 semester	Medical science and clinical investigation		5	MED/09
1 semester	Medical science and clinical investigation (Clerkships) (Total number of ects:3)	Internal medicine	2	MED/09
		Rheumatology	1	MED/16
1 semester	Neurological and behavioral disorders (Total number of ects:12)	Pharmacology	2	BIO/14
		Mental health	4	MED/25
		Neurology	4	MED/26
		Rehabilitation medicine	1	MED/34
		Neuroradiology	1	MED/37
1 semester	Neurological and behavioral disorders (Clerkships) (Total number of ects:2)	Mental health	1	MED/25
		Neurology	1	MED/26
2 semester	Evaluation Internship - Medical Sciences		5	NN
2 semester	Evaluation Internship - Surgical Sciences		5	NN
2 semester	Gynecology and reproductive medicine (Total number of ects:6)	Urology	1	MED/24
		Obstetrics, gynecology	5	MED/40
2 semester	Gynecology and reproductive medicine (Clerkships) (Total number of ects:2)	Urology	1	MED/24
		Obstetrics, gynecology	1	MED/40
2 semester	Pediatrics and child care (Total number of ects:6)	Pediatrics	5	MED/38
		Child neuropsychiatry	1	MED/39
2 semester	Pediatrics and child care (Clerkships)		1	MED/38
2 semester	Public, global health, occupational medicine and forensic sciences (Total number of ects:12)	Medical statistics	1	MED/01
		General and applied hygiene	3	MED/42
		Forensic medicine	4	MED/43
		Occupational medicine	3	MED/44
		Applied economics	1	SECS-P/07
		Total number of compulsory credits/ects	73	

### 6° COURSE YEAR (available as of academic year 2030/31) Core/compulsory courses/activities

Scheduling	Learning activity	Module/teaching unit	Ects	Sector
year	Evaluation Internship - General Medicine		5	NN
1 semester	Emergencies (Total number of ects:6)	Internal medicine	2	MED/09
		General surgery	2	MED/18
		Anesthesiology	2	MED/41
1 semester	Emergencies (Clerkships) (Total number of ects:3)	Internal medicine	1	MED/09
		General surgery	1	MED/18
		Anesthesiology	1	MED/41
1 semester	Multidisciplinary clinical management (Total number of ects:10)	Medical informatics	1	INF/01
		Medical history	2	MED/02
		Medical oncology	1	MED/06
		Respiratory diseases	1	MED/10

		Cardiovascular diseases	1	MED/11
		Endocrinology	1	MED/13
		Nephrology	1	MED/14
		General surgery	1	MED/18
		Radiology and radiotherapy	1	MED/36
1 semester	Multidisciplinary clinical management (Clerkships) (Total number of ects:2)	Internal medicine	1	MED/09
		Gastroenterology	1	MED/12
		Total number of compulsory credits/ects	26	

### **Elective courses**

**At the end of the 1st semester of 5th year students must choose the last exam (Track) of the IMC course among the 14 Track options (Frontal lesson + Clerkships)**

1 semester	Track1: Community-based and lifestyle medicine (Total number of ects:10)	Physiology	1	BIO/09
		Medical genetics	1	MED/03
		Medical oncology	1	MED/06
		Internal medicine	1	MED/09
		Psychiatry	1	MED/25
		Rehabilitation medicine	2	MED/34
		Dermatology	1	MED/35
		Pediatrics	1	MED/38
1 semester	Track10: Methodological approach to biomedical research (Total number of ects:10)	Obstetrics and Gynecology	1	MED/40
		Physiology	1	BIO/09
		Biochemistry	1	BIO/10
		Pharmacology	1	BIO/14
		Histology	1	BIO/17
		Genetics	1	MED/03
		General pathology	1	MED/04
		Clinical pathology	1	MED/05
		Microbiology	1	MED/07
		Pathology	1	MED/08
1 semester	Track2: Primary care (Total number of ects:10)	Biotechnology and methods in laboratory medicine	1	MED/46
		Internal medicine	2	MED/09
		Psychiatry	1	MED/25
		Odontostomatological diseases	1	MED/28
		Ophthalmological diseases	1	MED/30
		Otorhinolaryngology	1	MED/31
		Pediatrics	1	MED/38
		Child psychiatry	1	MED/39
		Obstetrics and gynecology	1	MED/40
		Nursing	1	MED/45
1 semester	Track3: Management of chronicity (Total number of ects:10)	Pharmacology	1	BIO/14
		Internal medicine	1	MED/09
		Respiratory diseases	1	MED/10
		Cardiovascular diseases	1	MED/11
		Gastroenterology	1	MED/12
		Endocrinology	1	MED/13
		Nephrology	1	MED/14
		Reumatology	1	MED/16
		Psychiatry	1	MED/25
		Neurology	1	MED/26
1 semester	Track4: Cancer (Total number of ects:10)	General pathology	1	MED/04
		Medical oncology	3	MED/06
		Pathology	1	MED/08
		Respiratory diseases	1	MED/10
		Gastroenterology	1	MED/12
		Blood diseases	1	MED/15
		Radiology and radiotherapy	1	MED/36
		Pediatrics	1	MED/38
1 semester	Track5: Public, global & occupational health and healthcare management (Total number of ects:10)	Pharmacology	1	BIO/14
		General pathology	1	MED/04
		Microbiology	1	MED/07
		Infectious diseases	1	MED/17
		General and applied hygiene	2	MED/42
		Forensic medicine	2	MED/43
		Occupational medicine	2	MED/44
1 semester	Track6: Intensive and emergency care (Total number of ects:10)	Internal medicine	1	MED/09
		Cardiovascular diseases	1	MED/11
		General surgery	1	MED/18
		Cardiac surgery	1	MED/23
		Neurology	1	MED/26
		Neurosurgery	1	MED/27
		Orthopedics	1	MED/33
		Radiology and radiotherapy	1	MED/36
		Anesthesiology	2	MED/41
1 semester		Track7: Surgical approach to diseases (Total number of ects:10)	General surgery	1
	Plastic surgery		1	MED/19
	Pediatric surgery		1	MED/20
	Vascular surgery		1	MED/22
	Cardiac surgery		1	MED/23
	Urology		1	MED/24
	Neurosurgery		1	MED/27
	Odontostomatological diseases		1	MED/28
	Ophthalmology		1	MED/30

		Orthopedics	1	MED/33
1 semester	Track8: Surgical and interventional oncology (Total number of ects:10)	General surgery	2	MED/18
		Plastic surgery	1	MED/19
		Thoracic surgery	1	MED/21
		Urology	1	MED/24
		Neurosurgery	1	MED/27
		Otorhinolaryngology	1	MED/31
		Orthopedics	1	MED/33
		Radiology	1	MED/36
		Obstetrics and gynecology	1	MED/40
1 semester	Track9: Advanced techniques in diagnostics and interventional imaging (Total number of ects:10)	Anatomy	1	BIO/16
		Pathology	1	MED/08
		Cardiovascular diseases	1	MED/11
		Gastroenterology	1	MED/12
		Neurology	1	MED/26
		Ophthalmology	1	MED/30
		Audiology	1	MED/32
		Radiology and radiotherapy	2	MED/36
		Neuroradiology	1	MED/37
2 semester	Track1: Community-based and lifestyle medicine (Clerkships) (Total number of ects:4)	Internal medicine	2	MED/09
		Psychiatry	1	MED/25
		Physical training sciences and methodology	1	M-EDF/01
2 semester	Track10: Methodological approach to biomedical research (Clerkships) (Total number of ects:4)	Clinical biochemistry	1	BIO/12
		Medical statistics	1	MED/01
		Medical History	1	MED/02
		Biotechnology and methods in laboratory medicine	1	MED/46
2 semester	Track2: Primary care (Clerkships) (Total number of ects:4)	Internal medicine	2	MED/09
		Midwifery	1	MED/47
		Clinical psychology	1	M-PSI/08
2 semester	Track3: Management of chronicity (Clerkships) (Total number of ects:4)	Internal medicine	1	MED/09
		Rehabilitation medicine	1	MED/34
		Physical training sciences and methodology	1	M-EDF/01
		Clinical psychology	1	M-PSI/08
2 semester	Track4: Cancer (Clerkships) (Total number of ects:4)	Medical oncology	1	MED/06
		Radiology and radiotherapy	1	MED/36
		Anesthesiology	1	MED/41
		Clinical psychology	1	M-PSI/08
2 semester	Track5: Public, global & occupational health and healthcare management (Clerkships) (Total number of ects:4)	Medical statistics	1	MED/01
		Medical history	1	MED/02
		General and applied hygiene	1	MED/42
		Forensic medicine	1	MED/43
2 semester	Track6: Intensive and emergency care (Clerkships) (Total number of ects:4)	Internal medicine	1	MED/09
		General surgery	1	MED/18
		Pediatrics	1	MED/38
		Anesthesiology	1	MED/41
2 semester	Track7: Surgical approach to diseases (Clerkships) (Total number of ects:4)	General surgery	1	MED/18
		Maxillofacial surgery	1	MED/29
		Ophthalmology	1	MED/30
		Obstetrics and gynecology	1	MED/40
2 semester	Track8: Surgical and interventional oncology (Clerkships) (Total number of ects:4)	Gastroenterology	1	MED/12
		General surgery	1	MED/18
		Pediatric surgery	1	MED/38
		Maxillofacial surgery	1	MED/29
2 semester	Track9: Advanced techniques in diagnostics and interventional imaging (Clerkships) (Total number of ects:4)	Vascular surgery	1	MED/22
		Radiology and radiotherapy	1	MED/36
		Neuroradiology	1	MED/37
		Biotechnology and methods in laboratory medicine	1	MED/46

### **Further elective courses**

**By the end of 6 years students should acquire also 8 credits/ECTS in optional clerkships to be chosen among the following:**

year	Clinical and surgical pathology (Clerkships) - Pathology		4	MED/08
year	Clinical imaging (Clerkships) - Radiology and radiotherapy		4	MED/36
year	Clinical oncology, emato-oncology and radiotherapy (Clerkships) - Blood diseases		4	MED/15
year	Clinical oncology, emato-oncology and radiotherapy (Clerkships) - Medical oncology		4	MED/06
year	Clinical oncology, emato-oncology and radiotherapy (Clerkships) - Pathology		4	MED/08
year	Clinical oncology, emato-oncology and radiotherapy (Clerkships) - Pharmacology		4	BIO/14
year	Clinical oncology, emato-oncology and radiotherapy (Clerkships) - Radiology and radiotherapy		4	MED/36
year	Emergencies (Clerkships) - Anesthesiology		4	MED/41
year	Emergencies (Clerkships) - General surgery		4	MED/18
year	Emergencies (Clerkships) - Internal medicine		4	MED/09
year	Fundamentals of clinical medicine 1 (Clerkships) - Cardiovascular diseases		4	MED/11
year	Fundamentals of clinical medicine 1 (Clerkships) - Nephrology		4	MED/14
year	Fundamentals of clinical medicine 1 (Clerkships) - Respiratory diseases		4	MED/10
year	Fundamentals of clinical medicine 2 (Clerkships) - Blood diseases		4	MED/15
year	Fundamentals of clinical medicine 2 (Clerkships) - Internal medicine		4	MED/09

year	Fundamentals of clinical medicine 2 (Clerkships) - Rheumatology		4	MED/16
year	Fundamentals of clinical medicine 3 (Clerkships) - Dermatology		4	MED/35
year	Fundamentals of clinical medicine 3 (Clerkships) - Endocrinology		4	MED/13
year	Fundamentals of clinical medicine 3 (Clerkships) - Gastroenterology		4	MED/12
year	Fundamentals of clinical medicine 3 (Clerkships) - Physical training sciences and methodology		4	M-EDF/01
year	Fundamentals of surgery (Clerkships) - Cardiac surgery		4	MED/23
year	Fundamentals of surgery (Clerkships) - General surgery		4	MED/18
year	Fundamentals of surgery (Clerkships) - Maxillofacial surgery		4	MED/29
year	Fundamentals of surgery (Clerkships) - Neurosurgery		4	MED/27
year	Fundamentals of surgery (Clerkships) - Plastic surgery		4	MED/19
year	Fundamentals of surgery (Clerkships) - Thoracic surgery		4	MED/21
year	Fundamentals of surgery (Clerkships) - Urology		4	MED/24
year	Fundamentals of surgery (Clerkships) - Vascular surgery		4	MED/22
year	Gynecology and reproductive medicine (Clerkships) - Obstetrics and gynecology		4	MED/40
year	Gynecology and reproductive medicine (Clerkships) - Urology		4	MED/24
year	Head and Neck (Clerkships) - Odontostomatological diseases		4	MED/28
year	Head and Neck (Clerkships) - Ophthalmology		4	MED/30
year	Head and Neck (Clerkships) - Otorhinolaryngology		4	MED/31
year	Infectious diseases (Clerkships) - Infectious diseases		4	MED/17
year	Infectious diseases (Clerkships) - Pharmacology		4	BIO/14
year	Medical psychology (Clerkships) - Clinical psychology		4	M-PSI/08
year	Medical psychology (Clerkships) - General psychology		4	M-PSI/01
year	Medical psychology (Clerkships) - Psychobiology and physiological psychology		4	M-PSI/02
year	Medical science and clinical investigation (Clerkships) - Blood diseases		4	MED/15
year	Medical science and clinical investigation (Clerkships) - Cardiovascular disease		4	MED/11
year	Medical science and clinical investigation (Clerkships) - Endocrinology		4	MED/13
year	Medical science and clinical investigation (Clerkships) - Gastroenterology		4	MED/12
year	Medical science and clinical investigation (Clerkships) - Nephrology		4	MED/14
year	Medical science and clinical investigation (Clerkships) - Physical training sciences and methodology		4	M-EDF/01
year	Medical science and clinical investigation (Clerkships) - Respiratory diseases		4	MED/10
year	Medical science and clinical investigation (Clerkships) - Rheumatology		4	MED/16
year	Neurological and behavioural disorders (Clerkships) - Neurology		4	MED/26
year	Neurological and behavioural disorders (Clerkships) - Neuroradiology		4	MED/37
year	Neurological and behavioural disorders (Clerkships) - Neurosurgery		4	MED/27
year	Neurological and behavioural disorders (Clerkships) - Psychiatry		4	MED/25
year	Neurological and behavioural disorders (Clerkships) - Rehabilitation medicine		4	MED/34
year	Orthopedics, traumatology and rehabilitation (Clerkships) - Orthopedics		4	MED/33
year	Orthopedics, traumatology and rehabilitation (Clerkships) - Rehabilitation medicine		4	MED/34
year	Pediatrics and child care (Clerkships) - Child neuropsychiatry		4	MED/39
year	Pediatrics and child care (Clerkships) - Pediatrics		4	MED/38
year	Public, global health, occupational medicine and forensic sciences (Clerkships) - Forensic medicine		4	MED/43
year	Public, global health, occupational medicine and forensic sciences (Clerkships) - General and applied hygiene		4	MED/42
year	Public, global health, occupational medicine and forensic sciences (Clerkships) - Medical statistics		4	MED/01
year	Public, global health, occupational medicine and forensic sciences (Clerkships) - Occupational medicine		4	MED/44
year	Translational medicine and biotechnologies 2 (Clerkships) - Biotechnology and methods in laboratory medicine		4	MED/46
year	Translational medicine and biotechnologies 2 (Clerkships) - Clinical biochemistry		4	BIO/12
year	Translational medicine and biotechnologies 2 (Clerkships) - Clinical pathology		4	MED/05
year	Translational medicine and biotechnologies 2 (Clerkships) - Microbiology		4	MED/07

**By the end of 6 years students should acquire 8 credits in elective activities:**

- 5 CFU to be acquired in the Core curriculum;

- 3 CFU to be acquired in the Final track.

**By the end of 6 years students should acquire 1 more credit in other skills relevant for the medical profession**

### **End of course requirements**

Final examination		13	NN
	Total number of compulsory credits/ects	13	

## **COURSE PROGRESSION REQUIREMENTS**

**Degree programme course progression is subject to the following compulsory or recommended pre-requisites**

### **Learning activity / course**

### **Prescribed foundation courses**

Anatomy	Histology	Core /compulsory
Biochemistry	Cells, molecules and genes	Core /compulsory
	Fundamentals of basic sciences	Core /compulsory
Emergencies	Fundamentals of clinical medicine 3	Core /compulsory
	Fundamentals of clinical medicine 2	Core /compulsory
	Fundamentals of clinical medicine 1	Core /compulsory
	Clinical and surgical pathology	Core /compulsory
	Clinical imaging	Recommended
	Fundamentals of pharmacology and therapeutics	Core /compulsory
	Neurological and behavioral disorders	Core /compulsory

Functions 1	Biochemistry	Core /compulsory
	Anatomy	Core /compulsory
Functions 2	Biochemistry	Core /compulsory
	Anatomy	Core /compulsory
Fundamentals of biomedical imaging	Clinical imaging	Core /compulsory
Fundamentals of clinical medicine 1	Mechanisms of diseases	Core /compulsory
	Microbiology	Core /compulsory
Fundamentals of clinical medicine 2	Mechanisms of diseases	Core /compulsory
	Microbiology	Core /compulsory
Fundamentals of clinical medicine 3	Mechanisms of diseases	Core /compulsory
	Microbiology	Core /compulsory
Fundamentals of pharmacology and therapeutics	Foundational pharmacological principles	Core /compulsory
Fundamentals of surgery	Fundamentals of clinical medicine 3	Core /compulsory
	Fundamentals of clinical medicine 2	Core /compulsory
	Fundamentals of clinical medicine 1	Core /compulsory
	Clinical and surgical pathology	Core /compulsory
	Clinical imaging	Core /compulsory
	Fundamentals of pharmacology and therapeutics	Core /compulsory
	Neurological and behavioral disorders	Core /compulsory
Genetics	Cells, molecules and genes	Core /compulsory
	Fundamentals of basic sciences	Core /compulsory
Mechanisms of diseases	Genetics	Core /compulsory
	Biochemistry	Core /compulsory
	Anatomy	Core /compulsory
Medical science and clinical investigation	Fundamentals of clinical medicine 3	Core /compulsory
	Fundamentals of clinical medicine 2	Core /compulsory
	Fundamentals of clinical medicine 1	Core /compulsory
	Clinical and surgical pathology	Core /compulsory
	Clinical imaging	Core /compulsory
	Fundamentals of pharmacology and therapeutics	Core /compulsory
	Neurological and behavioral disorders	Core /compulsory
Multidisciplinary clinical management	Fundamentals of surgery	Core /compulsory
	Medical science and clinical investigation	Core /compulsory
Translational medicine and biotechnologies 1	Microbiology	Core /compulsory
Translational medicine and biotechnologies 2	Translational medicine and biotechnologies 1	Core /compulsory

## ***VALIDATION OF ECTS ACQUIRED IN OTHER/PREVIOUS DEGREE PROGRAMMES/ THROUGH PROFESSIONAL EXPERIENCE***

### **Validation**

The studies carried out at other courses in the State university of Milan and in other universities, and the credits awarded as their result, will be acknowledged by the Faculty on the proposal of the Teaching Co-ordination Committee (TCC) for Medicine and Surgery, which may set up an ad hoc commission. If the criteria for progression from one year to another have been satisfied, the commission will indicate the examinations confirmed and the course year to which the student may be admitted. Enrolment in a specific year of the course is, in any case, subject to the availability of positions, on the basis of the maximum number of students scheduled for admission by the Faculty.

### **Time limits for credit validation**

The ECTS acquired for each exam expire 10 years after its acquisition, and require confirmation and validation.

#### **Lapsing of studies**

Student status will lapse after three (3) consecutive years in which the student did not pass any exam. That period is extended to eight (8) years for those enrolled up until 2019-2020.

Students' status does not lapse if they pass at least 1 exam before the 3 academic years since the last exam passed go by, or if they only have to sit the final degree exam/thesis and have acquired all the credits required, except those of the final exam.