



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2022/23**  
**SINGLE-CYCLE DEGREE**

**Medicine and Surgery - Policlinico Hospital Location (Classe LM-41)**  
**Enrolled from 2019/20 to 2020/21 Academic Year**

### **HEADING**

<b>Degree classification - Denomination and code:</b>	LM-41 Medicine and surgery
<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>	3rd , 4th
<b>Access procedures:</b>	Cap on student, student selection based on entrance test
<b>Course code:</b>	D51

### **PERSONS/ROLES**

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

Prof.ssa Maria Lorella Gianni

#### **Tutors - Faculty**

Per l'orientamento:

prof. Marco Froldi

prof.ssa Maria Grazia Rumi

Per la mobilità internazionale e l'Erasmus:

prof.ssa Cinzia Bressi

Per stage e tirocini:

prof. Giorgio Costantino

prof. Andrea Guarneri

Per laboratori ed altre attività:

prof.ssa Giovanna Mantovani

#### **Degree Course website**

<https://medicina-centrale.cdl.unimi.it/it>

Via della Commenda, 19 Phone 02/503.20835 - 20838 - 20826 dal lunedì al venerdì, dalle ore 9.30 alle ore 12.00 e dalle ore 14.00 alle ore 16.00 Email: [polodidatticocentrale@unimi.it](mailto:polodidatticocentrale@unimi.it)

### **CHARACTERISTICS OF DEGREE PROGRAMME**

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

The Master's degree programme in Medicine contemplates 360 CFU overall, spread out over six years, of which 60 must be earned as part of coursework aimed at developing specific professional acumen. The programme is intended to provide the scientific bases, and the necessary practical skills and theory required under Directive 75/363/EEC to practice medicine, as well as the methodology and experience to engage in continuing medical education after graduation; it also instils professional, decision-making, and operational autonomy thanks to an educational programme that takes a holistic approach to the health of all persons, sick and well, and includes training in assessing the chemical-physical, biological, and social environment of the patient.

The specific objectives for the pre-clinical and clinical coursework are set, on a priority basis, based on the following criteria:

- relevance of each objective within the framework of human biology,
- the preparation provided by each objective in terms of specific clinical issues.

The specific objectives for the clinical coursework are set, on a priority basis, based on the following criteria:

- epidemiological prevalence, urgency of the care needed, possibility of providing care, severity, educational value;
- promoting clinical work through healthcare facilities, at least for the hospital wards;
- improving patient interactions, including the physician's bedside manner;

- assessing adverse events and any other issue relating to the use of medicine (Pharmacovigilance) to ensure a favourable risk/benefit ratio for the community;
- assessing gender-based differences (Gender Medicine), with the ultimate goal of ensuring all persons, whether male or female, receive the best possible care.

These objectives fulfil the five Dublin descriptors (European Descriptors) with the suggestions provided by the Institute for International Medical Education (IIME) and “The TUNING Project (Medicine) – Learning Outcomes/Competences for Undergraduate Medical Education in Europe”. Furthermore, these align perfectly with the guidelines of the “core curriculum” for the Master’s degree in Medicine proposed at a national level by the Conference of the Italian Master-Degree Programme Presidents.

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

The degree in Medicine allows the graduate to sit for the State Exam to be licensed to practice medicine. Once the graduate has passed the exam, they can enrol in the professional association as a licensed, non-specialised physician. Licensed, non-specialised physicians are eligible for the Post-Graduate Programmes in Medicine and Medical Services (4-to-5-year programme) and the Internal Medicine Programme (3-year programme).

Licensed physicians can practice medicine in a variety of professional roles, whether through clinical practice, healthcare policy and management, or the biomedical sciences. Potential avenues for employment include:

- a) becoming a National Health Service doctor, or working with a public or state agency (post-graduate degree in medicine required);
- b) research in clinical or pre-clinical practice, as part of a university career, or through work with a research entity (a PhD is recommended);
- c) working as a freelance professional (post-graduate degree required to practice as a specialist, as well as completion of a training programme in Internal Medicine to practice as a licensed, non-specialty physician).

The practice of medicine is regulated by Italian law.

## **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 30 different 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, which last 3 to 12 months, through a public selection procedure.

Ad hoc commissions will evaluate:

- 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 generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration, requirements and online application deadline.

Every year, before the deadline for the call, the University organizes informative meetings to illustrate opportunities and rules for participation to students.

Erasmus+ scholarship:

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which is 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.

Learn more at <https://www.unimi.it/it/internazionale/studiare-allestero/partire-con-erasmus>.

For assistance, please contact:

International Mobility Office  
Via Santa Sofia, 9 (second floor)  
Tel. 02 503 13501-12589-13495-13502  
E-mail: mobility.out@unimi.it  
Desk opening hours: Monday to Friday 9 am - 12 noon

<b>1st COURSE YEAR (disactivated from academic year 2021/22) Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
An Introduction to Medicine	4	(1) MED/01, (1) MED/02, (1) MED/43, (1) MED/42
Applied Physics	6	FIS/07
Biology and genetics	6	(4) BIO/11, (2) BIO/13
Chemistry and introductory biochemistry	7	BIO/10
Histology	7	BIO/17
Human Anatomy	18	BIO/16
Total compulsory credits	48	
<b>2nd COURSE YEAR (disactivated from academic year 2022/23) Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Biochemistry	12	BIO/10
Biology and genetics	6	(2) MED/03, (4) BIO/13
General Pathology and Physiopathology	4	MED/04
Human Physiology	18	BIO/09
Immunology and Immunopathology	6	MED/04
Medical and Surgical Emergency - Clinical skills	1	MED/41
Medical English	3	L-LIN/12
Microbiology	6	MED/07
Total compulsory credits	56	
<b>3rd COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Clinical Pathology - Clinical Chemistry	4	(1) MED/07, (1) MED/05, (2) BIO/12
Clinical Pathology - Clinical skills	1	BIO/12
General Pathology and Physiopathology	7	MED/04
Head and Neck	3	(2) MED/31, (1) MED/32
Psychology, Health and Medicine	8	(1) MED/02, (3) M-PSI/01, (3) M-PSI/08, (1) MED/18
Radiology, Nuclear Medicine, and Radiation Therapy	1	MED/36
Statistics for Evidence Based Medicine	6	MED/01
Statistics for Evidence Based Medicine - Clinical skills	1	MED/01
Systems and Diseases I	18	(4) MED/14, (4) MED/10, (5) MED/11, (1) MED/09, (2) MED/08, (1) MED/24, (1) MED/18
Systems and Diseases I - Clinical skills	6	(1) MED/14, (1) MED/10, (1) MED/11, (2) MED/09, (1) MED/18
Total compulsory credits	55	
<b>4th COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Head and Neck	4	(1) MED/29, (1) MED/28, (2) MED/30
Head and Neck - Clinical skills	2	(1) MED/31, (1) MED/30
Infectious Diseases	5	MED/17
Infectious Diseases - Clinical skills	1	MED/17
Occupational Medicine	5	MED/44
Pharmacology	10	BIO/14
Radiology, Nuclear Medicine, and Radiation Therapy	4	MED/36
Radiology, Nuclear Medicine, and Radiation Therapy - Clinical Skills	2	MED/36
Systems and Diseases II	21	(4) MED/12, (2) MED/03, (4) MED/13, (4) MED/15, (1)

		MED/09, (3) MED/16, (2) MED/08, (1) MED/18
Systems and Diseases II - Clinical skills	7	(1) MED/12, (1) MED/13, (1) MED/15, (2) MED/09, (1) MED/16, (1) MED/18
	Total compulsory credits	61

### 5th COURSE YEAR (available as of academic year 2023/24) Core/compulsory courses/activities common

Learning activity	Ects	Sector
Anatomic Pathology	6	MED/08
Clinical Psychiatry and Clinical Psychology	5	(1) M-PSI/08, (4) MED/25
Clinical Psychiatry and Clinical Psychology - Clinical skills	1	MED/25
Clinical training - Medicine	5	ND
Clinical training - Surgery	5	ND
Dermatology	3	MED/35
Dermatology - Clinical skills	1	MED/35
General Surgery	6	(1) MED/24, (5) MED/18
General Surgery - Clinical skills	3	(1) MED/24, (2) MED/18
Internal Medicine	8	(1) MED/01, (5) MED/09, (2) MED/06
Internal Medicine - Clinical skills	6	(1) MED/10, (1) MED/11, (4) MED/09
Neurology	7	(1) MED/27, (5) MED/26, (1) MED/34
Neurology - Clinical skills	2	MED/26
Obstetrics and Gynecology	5	MED/40
Obstetrics and Gynecology - Clinical skills	1	MED/40
Preventive and Public Health Medicine	7	(1) SECS-P/06, (6) MED/42
Trauma and Orthopedic Surgery	5	(4) MED/33, (1) MED/34
Trauma and Orthopedic Surgery - Clinical skills	1	MED/33
	Total compulsory credits	77

### 6th COURSE YEAR (available as of academic year 2024/25) Core/compulsory courses/activities common

Learning activity	Ects	Sector
Clinical training - Internal Medicine	5	ND
General Surgery	3	(1) MED/21, (2) MED/18
General Surgery - Clinical skills	3	MED/18
Internal Medicine	5	MED/09
Legal Medicine	5	MED/43
Medical and Surgical Emergency	4	(1) MED/09, (1) MED/18, (2) MED/41
Medical and Surgical Emergency - Clinical skills	4	(1) MED/09, (1) MED/18, (2) MED/41
Pediatrics	6	(1) MED/39, (5) MED/38
Pediatrics - Clinical skills	2	MED/38
	Total compulsory credits	37

### Elective courses

### End of course requirements

Final Exam	18	NA
	Total compulsory credits	18

## COURSE PROGRESSION REQUIREMENTS

The course contains the following obligatory or advised prerequisites

Learning activity	Prescribed foundation courses	O/S
General Pathology and Physiopathology	Biology and genetics	Core/compulsory
	Biochemistry	Core/compulsory
Immunology and Immunopathology	Biology and genetics	Core/compulsory
	Biochemistry	Core/compulsory
Systems and Diseases II	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Systems and Diseases I	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Anatomic Pathology	General Pathology and Physiopathology	Core/compulsory

	Human Physiology	Core/compulsory
Human Anatomy	Histology	Core/compulsory
Medical and Surgical Emergency	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Pediatrics	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
General Surgery	Systems and Diseases II	Core/compulsory
	Systems and Diseases I	Core/compulsory
	Anatomic Pathology	Core/compulsory
	Pharmacology	Core/compulsory
	Radiology, Nuclear Medicine, and Radiation Therapy	Core/compulsory
Internal Medicine	Systems and Diseases II	Core/compulsory
	Systems and Diseases I	Core/compulsory
	Anatomic Pathology	Core/compulsory
	Pharmacology	Core/compulsory
	Radiology, Nuclear Medicine, and Radiation Therapy	Core/compulsory
Clinical Psychiatry and Clinical Psychology	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Neurology	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Biochemistry	Chemistry and introductory biochemistry	Core/compulsory
Trauma and Orthopedic Surgery	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Obstetrics and Gynecology	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Infectious Diseases	General Pathology and Physiopathology	Core/compulsory
	Microbiology	Core/compulsory
	Human Physiology	Core/compulsory
Dermatology	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory
Human Physiology	Human Anatomy	Core/compulsory
Head and Neck	General Pathology and Physiopathology	Core/compulsory
	Human Physiology	Core/compulsory