



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2023/24**  
**SINGLE-CYCLE DEGREE**

**Medicine and Surgery - San Paolo Hospital Location (Classe LM-41)**  
**Enrolled from 2019/20 Academic Year to 2021/22 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 , 5th
<b>Access procedures:</b>	Cap on student, student selection based on entrance test
<b>Course code:</b>	D53

### **PERSONS/ROLES**

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

Prof. Luca Mario Rossetti

#### **Tutors - Faculty**

Per stage e tirocini:

prof. Pier Maria Battezzati

Per la mobilità internazionale e l'Erasmus:

prof.ssa Elisa Borghi (mobility.diss@unimi.it)

Per l'orientamento:

prof. Luca Mario Rossetti

#### **Degree Course website**

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

(8<sup>a</sup> piano - Blocco C) - Via A. Di Rudinì, 8 Phone 02/503.23008 – 23012

Email: [segrdid.sanpaolo@unimi.it](mailto:segrdid.sanpaolo@unimi.it)

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### **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/EU 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 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;  
promote 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 integrate the five Dublin descriptors (European descriptors) with those proposed by the International Medical Education (IIME) and the "The TUNING Project (Medicine) – Learning Outcomes/Competences for Undergraduate Medical Education in Europe". Furthermore, they align perfectly with the requirements of the "core curriculum" for the Master's degree in Medicine as proposed on a national level by the Conference of 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 (4-5 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:

becoming a National Health Service doctor, or working with a public or state agency (post-graduate degree in medicine required);

research in clinical or pre-clinical practice, as part of a university career, or through work with a research entity (a PhD is recommended);

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 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.

### **Study and internships abroad**

The Single-cycle degree programme in Medicine at the San Paolo Hospital Teaching Centre offers students the opportunity to complete a portion of their degree requirements on a study-abroad programme (1-12 month programmes). That option is available both through institutional channels like the European Erasmus programme, and through the "Clerkship" offered by IFMSA (International Federation of Medical Students Associations) of which the Italian Medical Students Association ("SISM") is a member. All coursework and other for-credit activities completed abroad must be authorised by the college of instructors for the particular degree programme. The transfer of all or any portion of such credits shall be carried out pursuant to the European Credit Transfer Systems (ECTS), and shall be applied against the student's degree requirements. The conversion of any marks earned abroad shall be into thirtieths, pursuant to the schedule approved by the Academic Senate.

### **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.

Learn more at <https://www.unimi.it/en/international/study-abroad/studying-abroad-erasmus>

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 (disactivated from academic year 2022/23) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Anatomy (1st year)	8	BIO/16
Biology and genetics (1st year)	5	BIO/13
Chemistry and biochemistry	12	BIO/10
Histology and embriology	7	BIO/17
Medical humanities	4	(1) MED/02, (3) M-FIL/02
Medical humanities (qualifying activity)	2	MED/09
Medical physics	6	FIS/07
Total compulsory credits	44	
<b>2nd COURSE YEAR (disactivated from academic year 2023/24) Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Anatomy (2nd year)	10	BIO/16
Biology and genetics (2 year)	5	(4) MED/03, (1) BIO/13
Clinical medicine 2nd year	1	M-PED/01
Clinical medicine 2nd year (qualifying activity)	1	MED/09
Emergency medical and surgical care (2nd year) (qualifying activity)	1	MED/41
General pathology and physiopathology	9	MED/04
Human physiology years 2	9	BIO/09
Immunology and immunopathology	5	MED/04
Medical english	3	L-LIN/12
Molecular bases of life	9	(3) BIO/11, (6) BIO/10
Total compulsory credits	53	
<b>3rd COURSE YEAR Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Communication and relationship in medicine 3rd year	4	(2) MED/09, (2) M-PSI/08
Human pathology (3rd year)	2	MED/08
Human physiology	9	BIO/09
Medical pharmacology (3rd year)	4	BIO/14
Microbiology	6	MED/07
Semiotics and pathology of systems (qualifying activity)	6	(1) MED/14, (1) MED/10, (1) MED/11, (2) MED/09, (1) MED/18
Semiotics and pathology of systems 1	17	(1) MED/03, (4) MED/14, (4) MED/10, (5) MED/11, (1) MED/09, (1) MED/24, (1) MED/18
Statistics and assessment of evidence in medicine	7	MED/01
Statistics and assessment of evidence in medicine (qualifying activity)	1	MED/01
Total compulsory credits	56	
<b>4th COURSE YEAR Core/compulsory courses/activities common</b>		
Learning activity	Ects	Sector
Communication and relationship in medicine 4th year	2	M-PSI/08
Dermatologic clinics	3	MED/35
Dermatologic clinics (qualifying activity)	1	MED/35
Diagnostic imagining and radiotherapy	5	MED/36
Diagnostic imagining and radiotherapy (qualifying activity)	3	MED/36
Emergency medical and surgical care (4th year) (qualifying activity)	1	MED/33

Human pathology (4th year)	2	MED/08
Infectious diseases clinical	5	MED/17
Infectious diseases clinical (qualifying activity)	1	MED/17
Medical pharmacology (4th year)	3	BIO/14
Medical surgical specialties	7	(1) MED/29, (1) MED/28, (3) MED/31, (2) MED/30
Medical surgical specialties (qualifying activity)	2	(1) MED/31, (1) MED/30
Public health	7	(1) SECS-P/06, (6) MED/42
Semiotics and pathology of systems 2	18	(1) MED/03, (4) MED/12, (4) MED/13, (4) MED/15, (1) MED/09, (3) MED/16, (1) MED/18
Semiotics and pathology of systems 2 (qualifying activity)	7	(1) MED/12, (1) MED/13, (1) MED/15, (2) MED/09, (1) MED/16, (1) MED/18
Total compulsory credits		67

### 5th COURSE YEAR Core/compulsory courses/activities common

Learning activity	Ects	Sector
Clinical medicine 5th year	13	(3) MED/04, (1) M-FIL/02, (2) M-PSI/01, (4) MED/09, (1) MED/17, (2) MED/06
Clinical medicine 5th year (qualifying activity)	2	(1) MED/15, (1) MED/09
Clinical obstetrics and gynecology	5	MED/40
Clinical obstetrics and gynecology (qualifying activity)	2	MED/40
Clinical orthopedics and traumatology	5	(4) MED/33, (1) MED/34
Clinical orthopedics and traumatology (qualifying activity)	1	MED/33
Clinical training - Medicine	5	ND
Clinical training - Surgery	5	ND
Diseases of the nervous system	7	(1) MED/27, (5) MED/26, (1) MED/34
Diseases of the nervous system (qualifying activity)	2	MED/26
Emergency medical and surgical care (5th year) (qualifying activity)	1	MED/11
Human pathology (5th year)	6	MED/08
Laboratory medicine	4	(1) MED/07, (1) MED/05, (2) BIO/12
Laboratory medicine (qualifying activity)	1	BIO/12
Medical pharmacology (5th year)	3	BIO/14
Occupational health	6	MED/44
Psychiatry and behavioral psychology	5	(1) M-PSI/08, (4) MED/25
Psychiatry and behavioral psychology (qualifying activity)	1	MED/25
Surgery: clinics and therapy (5th year)	5	MED/18
Surgery: clinics and therapy (5th year) (qualifying activity)	3	(1) MED/21, (1) MED/18, (1) MED/24
Total compulsory credits		82

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

Learning activity	Ects	Sector
Clinical medicine 6th year	3	MED/09
Clinical medicine 6th year (qualifying activity)	2	MED/09
Clinical training - Internal Medicine	5	ND
Emergency medical and surgical care	4	(1) MED/09, (1) MED/18, (2) MED/41
Emergency medical and surgical care (6th year) (qualifying activity)	1	MED/41
General and specialised pediatrics	6	(1) MED/39, (5) MED/38
General and specialised pediatrics (qualifying activity)	2	MED/38
Legal medicine	5	MED/43
Surgery: clinics and therapy (6th year)	3	MED/18
Surgery: clinics and therapy (6th year) (qualifying activity)	1	MED/18
Total compulsory credits		32

### 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
Human physiology	Anatomy (2nd year)	Core/compulsory
General pathology and physiopathology	Biology and genetics (2 year)	Core/compulsory
Medical surgical specialties	General pathology and physiopathology	Core/compulsory
Anatomy (2nd year)	Histology and embriology	Core/compulsory
Clinical medicine 6th year	Semiotics and pathology of systems 2	Core/compulsory
	Semiotics and pathology of systems 1	Core/compulsory
	Human pathology (5th year)	Core/compulsory
	Medical pharmacology (5th year)	Core/compulsory
	Diagnostic imagining and radiotherapy	Core/compulsory
Semiotics and pathology of systems 2	Human physiology	Core/compulsory
	General pathology and physiopathology	Core/compulsory
Semiotics and pathology of systems 1	Human physiology	Core/compulsory
	General pathology and physiopathology	Core/compulsory
Human pathology (5th year)	General pathology and physiopathology	Core/compulsory
Emergency medical and surgical care	General pathology and physiopathology	Core/compulsory
Clinical orthopedics and traumatology	General pathology and physiopathology	Core/compulsory
Clinical obstetrics and gynecology	General pathology and physiopathology	Core/compulsory
Infectious diseases clinical	General pathology and physiopathology	Core/compulsory
Immunology and immunopathology	Biology and genetics (2 year)	Core/compulsory
	Molecular bases of life	Core/compulsory
General and specialised pediatrics	General pathology and physiopathology	Core/compulsory
Surgery: clinics and therapy (6th year)	Semiotics and pathology of systems 2	Core/compulsory
	Semiotics and pathology of systems 1	Core/compulsory
	Human pathology (5th year)	Core/compulsory
	Medical pharmacology (5th year)	Core/compulsory
	Diagnostic imagining and radiotherapy	Core/compulsory
Diseases of the nervous system	General pathology and physiopathology	Core/compulsory
Dermatologic clinics	General pathology and physiopathology	Core/compulsory