

UNIVERSITA' DEGLI STUDI DI MILANO PROGRAMME DESCRIPTION - ACADEMIC YEAR 2020/21 SINGLE-CYCLE DEGREE

Medicine and Surgery - Sacco Hospital Location (Classe LM-41) Enrolled since 2019/20 Academic Year

HEADING	
Degree classification - Denomination	LM-41 Medicine and surgery
and code:	
Degree title:	Dottore Magistrale
Length of course:	6 years
Total number of credits required to	360
complete programme:	
Years of course currently available:	1st, 2nd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	D52

PERSONS/ROLES

Head of Study Programme

Prof. Manuela Nebuloni

Tutors - Faculty

Per l'orientamento:

Prof.ssa Marta Bassi

Per la mobilità internazionale e l'Erasmus:

dott. Pietro Zerbi

Degree Course website

https://medicina-vialba.cdl.unimi.it/it

Settore didattico Vialba (Lita 1) - Via G.B. Grassi, 74 - 20157 Milano Phone 02/503.19605 Dal lunedi al venerdi dalle 9.00 alle 15.30 Email: segredid.vialba@unimi.it

Settore Didattico Vialba (Lita 2, piano 1) - Via G.B. Grassi, 74 - 20157 Milano Phone 02/503.19733 Email: prenotazioniaule.vialba@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 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 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's 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.

Study and internships abroad

The single-cycle Master's Degree Programme in Medicine at the Vialba teaching centre encourages periods of training overseas and offers assistance to those who qualify. The number of applications for the Erasmus and Erasmus Mundus programme continues to grow. Before submitting the Learning Agreement to the Erasmus Coordinator, each applicant will have the possibility of discussing his or her study plan with the President of the Degree Programme. This practice allows students to reap the most advantage from their experience at an international university. Marks earned at a Spanish university are transferred using a conversion table published in the Regulation for the Degree Programme. To secure transfer credit for academic work completed in any other European Union countries, please refer to the ECTS conversion table. The Erasmus+programme offers a wide range of options in Europe. Most students choose rotations in European countries, Spain and Portugal in particular. That said, some choose to study abroad at universities in the U.S., enjoying fulfilling experiences in clinical and research activities. Based on these positive findings, the single-cycle Master's Degree Programme in Medicine at the Vialba teaching centre has recently joined the AAMC-GHLO programme, expanding opportunities for international exchanges. GHLO facilitates collaborations between medical schools in the U.S., and in the rest of the world. Transfer credit is guaranteed thanks to bilateral agreements.

Clinical rotations and research activities are the areas where students on an international rotation get the most benefit. Therefore, the best years for study abroad are Year III through Year VI. Sixth-year rotations are generally intended for writing one's thesis.

Each year, our teaching centre also welcomes international students, mainly from Germany and countries in Eastern Europe. They appreciate the long-standing tradition of academic study in our programmes, and the hospitality typical of their Italian colleagues. The greatest obstacle to attracting more international students is the difficulty of securing accommodations at reasonable rates. We are working hard to find solutions to this problem.

How to participate in Erasmus mobility programs

Ai programmi di mobilità per studio – che durano dai 3 ai 12 mesi - gli studenti dell'Università Statale regolarmente iscritti possono partecipare solo con una procedura di selezione pubblica finalizzata a valutare, grazie a specifiche commissioni:

- la proposta di programma di studio all'estero del candidato;
- la sua conoscenza della lingua straniera richiesta;
- le motivazioni alla base della candidatura.

Bando e incontri informativi:

La selezione pubblica ha inizio in genere verso febbraio di ogni anno con la pubblicazione di un bando che indica: le destinazioni, con la rispettiva durata della mobilità, i requisiti richiesti e i termini per la presentazione della domanda online.

Ogni anno, prima della scadenza del bando, l'Ateneo organizza incontri informativi per illustrare agli studenti opportunità e regole di partecipazione.

Borsa di studio Erasmus +:

Per i soggiorni all'estero che rientrano nel programma Erasmus+, l'Unione Europea assegna ai vincitori della selezione una borsa di studio a sostegno delle spese di mobilità, che viene integrata da un contributo dell'Ateneo per gli studenti in condizioni economiche svantaggiate.

Corsi di lingua:

Gli studenti che superano le selezioni per i programmi di mobilità possono avvalersi dei corsi intensivi di lingue straniere proposti ogni anno dall'Ateneo.

Maggiori informazioni alla pagina https://www.unimi.it/it/internazionale/studiare-allestero/partire-con-erasmus .

Per assistenza:

Ufficio Mobilità internazionale Via Santa Sofia, 9 (secondo piano) Tel. 02 503 13501-12589-13495-13502 mobility.out@unimi.it

Orario sportello: Lunedì-venerdì ore 9 - 12

1st COURSE YEAR Core/compulsory courses/activities common				
Learning activity			Ects	Sector
An Introduction to Medicine			4	(1) MED/01, (1) MED/02, (1) MED/45, (1) MED/42
Biology and genetics		12	(4) BIO/11, (2) MED/01, (6) BIO/13	
Chemistry and introductory biochemistry		7	BIO/10	
Histology		7	BIO/17	
Human anatomy		13	BIO/16	
Medical physics		7	(6) FIS/07, (1) MED/36	
Trauma and Orthopedic surgery		2	MED/33	
		Total compulsory credits	52	

2nd COURSE YEAR Core/compulsory courses/activities common			
Learning activity		Ects	Sector
Biochemistry		12	BIO/10
Human anatomy		5	BIO/16
Human physiology		20	(18) BIO/09, (2) MED/26
Immunology and Immunopathology		5	MED/04
Microbiology		6	MED/07
Public health		3	MED/42
	Total compulsory credits	51	

3rd COURSE YEAR (available as of academic year 2021/22) Core/compulsory courses/activities common

Learning activity		Ects	Sector
Biostatistics and Clinical epidemiology			MED/01
Laboratory medicine		4	(1) MED/05, (3) BIO/12
Medical English		3	L-LIN/12
Molecular and cellular basis of diseases		16	(3) MED/03, (12) MED/04, (1) MED/06
Patient-physician communication		8	(5) M-PSI/01, (1) MED/09, (2) M- PSI/08
Systems and diseases 1		18	(4) MED/14, (4) MED/15, (5) MED/11, (3) MED/09, (1) MED/18, (1) MED/24
Systems and diseases 1 - Clinical skills		9	(2) MED/14, (4) MED/09, (2) MED/24, (1) MED/18
Trauma and Orthopedic surgery		3	(2) MED/33, (1) MED/34
	Total compulsory credits	64	

4th COURSE YEAR (available as of academic year 2022/23) Core/compulsory courses/activities common

Learning activity		Ects	Sector
Dermatology			MED/35
General surgery - Clinical skills		2	MED/17
Infectious diseases			MED/17
Infectious diseases (clinical skills)			MED/17 (1) MED/27, (3)
Neurology		5	MED/26, (1) MED/34
Occupational medicine		6	MED/44
Pharmacology		10	BIO/14
Public health		4	MED/42
Systems and diseases 2		16	(4) MED/12, (4) MED/13, (3) MED/10, (1) MED/21, (3) MED/16, (1) MED/18
Systems and diseases 2 - Clinical skills		6	(2) MED/10, (4) MED/11
Trauma and Orthopedic surgery - Clinical skills		2	MED/33
	Total compulsory credits	61	
5th COURSE YEAR (available as of academic year 202	3/24) Core/compulsory cours	ses/acti	vities common
Learning activity			Sector
Evaluation internship - Medical sciences			ND
Evaluation internship - surgical sciences			ND MED/42
Forensic medicine General surgery			MED/43 MED/18
General Surgery		4	(1) MED/29, (1)
Head and Neck		7	MED/28, (2) MED/31, (2) MED/30, (1) MED/32
Internal medicine		9	(2) MED/01, (4)
Internal medicine - Clinical skills		3	MED/06
Obstetrics and Gynecology			MED/40
Obstetrics and Gynecology - Clinical skills			MED/40
Pathology			MED/08 (1) MED/39, (5)
Pediatrics		6	MED/38
Psychiatry and Clinical Psychology		5	MED/25
Radiology and Radiotherapy			MED/36
Radiology and Radiotherapy - Clinical skills			MED/36
Trauma and Orthopedic surgery - Clinical skills			MED/38
	Total compulsory credits	75	
6th COURSE YEAR (available as of academic year 202	24/25) Core/compulsory cours	ses/acti	vities common
Learning activity		Ects	Sector
Emergency medicine		4	(1) MED/00 (1)
Emergency medicine - Clinical skills		4	(2) MED/10 (2)
General surgery			MED/18
Internal medicine			MED/09
Practical evaluation training - General medicine	Total compulsory credits	21	ND
Elective courses			
Clinical pharmacology (clinical skills)			BIO/14
Dermatology - Clinical skills		3	MED/35
Infectious diseases (clinical skills)			MED/17
Labor medicine (clinical skills) Laboratory medicine - Clinical skills			MED/43 BIO/12
Medical clinic (clinical skills) - Blood diseases			MED/15
Medical clinic (clinical skills) - Cardiovascular system diseases			MED/11
Medical clinic (clinical skills) - Endocrinology			MED/13

Internal medicine		4	MED/09
Practical evaluation training - General medicine		5	ND
	Total compulsory credits	21	
Elective courses			
Clinical pharmacology (clinical skills)		3	BIO/14
Dermatology - Clinical skills		3	MED/35
Infectious diseases (clinical skills)		3	MED/17
Labor medicine (clinical skills)		3	MED/43
Laboratory medicine - Clinical skills		1	BIO/12
Medical clinic (clinical skills) - Blood diseases		3	MED/15
Medical clinic (clinical skills) - Cardiovascular system diseases		3	MED/11
Medical clinic (clinical skills) - Endocrinology			MED/13
Medical clinic (clinical skills) - Gastroenterology			MED/12
Medical clinic (clinical skills) - Infectious diseases			MED/17
Medical clinic (clinical skills) - Internal medicine 1			MED/09
Medical clinic (clinical skills) - Medical oncology 1			MED/06
Medical clinic (clinical skills) - Rheumatology			MED/16
Medical surgical specialties (clinical skills) - Audiology			MED/32
Medical surgical specialties (clinical skills) - Maxillo-facial surgery			MED/29
Medical surgical specialties (clinical skills) - Odontostomatological diseases			MED/28
Medical surgical specialties (clinical skills) - Ophtalmological diseases			MED/30
Medical surgical specialties (clinical skills) - Otolaryngology			MED/31
Microbiology (clinical skills)			MED/07
Nervous system diseases (clinical skills) - Neurology			MED/26
Nervous system diseases (clinical skills) - Neuroradiology			MED/37
Nervous system diseases (clinical skills) - Physical and Rehabilitation medicine	·	3	MED/34

Obstetrics and Gynecology - Clinical skills		3 MED/40
Occupational medicine - Clinical skills		3 MED/44
Orthopedic clinic (clinical skills)		3 MED/33
Pathological anatomy (clinical skills)		1 MED/08
Pediatrics (clinical skills) - Child neuropsychiatry		3 MED/39
Pediatrics (clinical skills) - General and specialist pediatrics		3 MED/38
Psychiatry and Clinical Psychology - Clinical skills		3 MED/25
Radiology and Radiotherapy 2 - Clinical skills		1 MED/36
Semeiotics and systems pathology 1 (clinical skills) - Blood diseases		3 MED/15
Semeiotics and systems pathology 1 (clinical skills) - Cardiovascular system diseases		3 MED/11
Semeiotics and systems pathology 1 (clinical skills) - Urology		3 MED/24
Semeiotics and systems pathology 1 (clinical skills) -Nephrology		3 MED/14
Semeiotics and systems pathology 2 (clinical skills) - Cardiac surgery		3 MED/23
Semeiotics and Systems pathology 2 (clinical skills) - Endocrinology		3 MED/13
Semeiotics and systems pathology 2 (clinical skills) - Gastroenterology		3 MED/12
Semeiotics and systems pathology 2 (clinical skills) - General surgery		1 MED/18
Semeiotics and Systems pathology 2 (clinical skills) - Internal medicine		3 MED/09
Semeiotics and systems pathology 2 (clinical skills) - Respiratory system diseases		3 MED/10
Semeiotics and systems pathology 2 (clinical skills) - Rheumatology		3 MED/16
Statistics and evaluation of evidence in medicine (clinical skills)		1 MED/01
Surgical clinic and surgical therapy (clinical skills) - Anesthesiology		3 MED/41
Surgical clinic and surgical therapy (clinical skills) - Cardiac and vascular surgery		3 MED/22, MED/23
Surgical clinic and Surgical therapy (clinical skills) - Gastroenterology		3 MED/12
Surgical clinic and surgical therapy (clinical skills) - General surgery		3 MED/18
Surgical clinic and Surgical therapy (clinical skills) - Neurosurgery		3 MED/27
Surgical clinic and surgical therapy (clinical skills) - Pediatric and infant surgery		3 MED/20
Surgical clinic and surgical therapy (clinical skills) - Plastic surgery		3 MED/19
Surgical clinic and surgical therapy (clinical skills) - Thoracic surgery		3 MED/21
End of course requirements		
Final Exam	1	B NA
	Total compulsory credits 1	3
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COURSE PROGRESSION REQUIREMENTS

The course contains the following obligatory or advised prerequisites

Learning activity	Prescribed foundation courses	O/S
Systems and diseases 2	Human physiology	Core/compulsory
	Immunology and Immunopathology	Core/compulsory
	Molecular and cellular basis of diseases	Core/compulsory
Neurology	Molecular and cellular basis of diseases	Core/compulsory
Human physiology	Human anatomy	Core/compulsory
Biochemistry	Chemistry and introductory biochemistry	Core/compulsory
Immunology and Immunopathology	Biochemistry	Core/compulsory
	Biology and genetics	Core/compulsory
Infectious diseases	Molecular and cellular basis of diseases	Core/compulsory
Pediatrics	Molecular and cellular basis of diseases	Core/compulsory
Psychiatry and Clinical Psychology	Molecular and cellular basis of diseases	Core/compulsory
General surgery	Systems and diseases 2	Core/compulsory
	Radiology and Radiotherapy	Core/compulsory
	Pharmacology	Core/compulsory
	Systems and diseases 1	Core/compulsory
	Pathology	Core/compulsory
Obstetrics and Gynecology	Molecular and cellular basis of diseases	Core/compulsory
Emergency medicine	Molecular and cellular basis of diseases	Core/compulsory
Dermatology	Molecular and cellular basis of diseases	Core/compulsory
Head and Neck	Molecular and cellular basis of diseases	Core/compulsory
Human anatomy	Histology	Core/compulsory
Molecular and cellular basis of diseases	Biochemistry	Core/compulsory
	Biology and genetics	Core/compulsory
Systems and diseases 1	Human physiology	Core/compulsory
	Immunology and Immunopathology	Core/compulsory
	Molecular and cellular basis of diseases	Core/compulsory
Trauma and Orthopedic surgery	Molecular and cellular basis of diseases	Core/compulsory
Pathology	Molecular and cellular basis of diseases	Core/compulsory
nternal medicine	Systems and diseases 2	Core/compulsory
	Radiology and Radiotherapy	Core/compulsory
	Pharmacology	Core/compulsory
	Systems and diseases 1	Core/compulsory
	Pathology	Core/compulsory