



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

**Medicine and Surgery - Sacco Hospital Location (Classe LM-41)**  
**Enrolled from 2017/18 Academic Year to 2018/19 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>	D52

#### **PERSONS/ROLES**

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

Prof. Manuela Nebuloni

##### **Degree Course website**

<http://www.dibic.unimi.it> - <http://cdlmcpv.ariel.ctu.unimi.it>

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

The University of Milan supports the international mobility of its students, offering them the opportunity to spend periods of study and training abroad, a unique opportunity to enrich their curriculum in an international context. To this end, the University adheres to the European Erasmus+ program within which agreements with over 300 universities in over 30 countries have been signed. Under this program, students can attend one of these universities in order to pursue training in substitution of part of the curriculum foreseen by the chosen study course, including internships at companies, research and training centers or other organizations, or even to prepare their thesis. The University also maintains relationships with several other prestigious foreign institutions offering similar opportunities even within higher study levels.

##### **Study and internships abroad**

The University of Milano - Polo Vialba traditionally favors international student rotations and supports the applicants for programs of international student exchanges. The number of applicants to the Erasmus and Erasmus Mundus programs is consistently on the increase. Each applicant has the opportunity to discuss his/her program with the Dean of Curriculum, before submitting the learning agreement to the Erasmus coordinator. This practice enables the applicants to take full advantage of the experience in a foreign institution. Votes awarded by Spanish universities are transcribed based on a specific conversion table available in the rule book of our institution. Reference for recognition and transcription of votes obtained in all other European countries is the ECTS conversion table, also available in the rule book.

Erasmus+ offers a wide choice of positions in Europe and most students select European countries: Spain and Portugal in particular. However, some enjoy rotations in universities in the United States, with rewarding experiences in clinical activities and research. Based on their positive reports, the University of Milano - Polo Vialba has recently joined the AAMC-GHLO, widening the perspectives for student exchanges. GHLO facilitates partnership with universities in the U.S.

and in all continents. Bilateral agreements grant credit and vote recognition.

Clinical clerkships and clinical research are the most profitable areas for students on an international rotation. Therefore, the suggested best time is from year three through six. Sixth year rotations are usually devoted to process the thesis that is discussed at the final examination.

Each year we host a number of visiting students, mostly from Germany and Eastern European countries. They like the savor of tradition in our medical school and the friendly attitude of Italian young people. They also enjoy mixing with our students in social events. It is of mutual benefit and foster better acceptance of different cultures and traditions. The difficulty to provide lodging at reasonable costs is a major obstacle to attract more foreign students. We presently concentrate on finding adequate solutions.

### How to participate in Erasmus mobility programs

To gain access to mobility programs for study purposes, lasting 3-12 months, the enrolled students of the University of Milan must attend a public selection that starts usually around the month of February each year through the presentation of specific competition announcements, which contain information on available destinations, respective duration of the mobility, requirements and deadlines for submitting the online application. The selection, aimed at evaluating the proposed study abroad program of the candidate, knowledge of a foreign language, especially when this is a preferential requirement, and the motivations behind the request, is performed by specially constituted commissions. Each year, before the expiry of the competition announcements, the University organises information sessions for the specific study course or groups of study courses, in order to illustrate to students the opportunities and participation rules. To finance stays abroad under the Erasmus + program, the European Union assigns to the selected students a scholarship that - while not covering the full cost of living abroad - is a useful contribution for additional costs as travel costs or greater cost of living in the country of destination. The monthly amount of the communitarian scholarship is established annually at national level; additional contributions may be provided to students with disabilities.

In order to enable students in economic disadvantaged conditions to participate in Erasmus+ program, the University of Milan assigns further additional contributions; amount of this contributions and criteria for assigning them are established from year to year. The University of Milan promotes the linguistic preparation of students selected for mobility programs, organising every year intensive courses in the following languages: English, French, German and Spanish.

The University in order to facilitate the organisation of the stay abroad and to guide students in choosing their destination offers a specific support service.

More information in Italian are available on [www.unimi.it](http://www.unimi.it) > Studenti > Studiare all'estero > Erasmus+

For assistance please contact:

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<b>1st COURSE YEAR (disactivated from academic year 2019/20) 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/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
<b>2nd COURSE YEAR (disactivated from academic year 2020/21) Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
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

<b>3rd COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Biostatistics and Clinical epidemiology	3	MED/01
Biostatistics and Clinical epidemiology - Skills	2	MED/01
Laboratory medicine	4	(1) MED/05, (3) BIO/12
Laboratory medicine - Clinical skills	1	BIO/12
Medical English	3	L-LIN/12
Molecular and cellular basis of diseases	16	(3) MED/03, (12) MED/04, (1) MED/06
Orthopedic clinic (clinical skills)	1	MED/33
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	(1) MED/14, (1) MED/15, (3) MED/09, (1) MED/24, (3) MED/18
Trauma and Orthopedic surgery	3	(2) MED/33, (1) MED/34
Total compulsory credits		68
<b>4th COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Dermatology	3	MED/35
Infectious diseases	5	MED/17
Infectious diseases (clinical skills)	3	MED/17
Nervous system diseases (clinical skills) - Neurology	3	MED/26
Neurology	5	(1) MED/27, (3) MED/26, (1) MED/34
Occupational medicine	6	MED/44
Pharmacology	10	BIO/14
Public health	4	(1) SECS-P/06, (3) 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	3	MED/11
Total compulsory credits		58
<b>5th COURSE YEAR (available as of academic year 2021/22) Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Forensic medicine	5	MED/43
General surgery	4	MED/18
Head and Neck	7	(1) MED/29, (1) MED/28, (2) MED/31, (2) MED/30, (1) MED/32
Internal medicine	9	(2) MED/01, (4) MED/09, (1) M-EDF/01, (1) MED/17, (1) MED/06
Internal medicine - Clinical skills	4	(3) MED/09, (1) MED/35
Obstetrics and Gynecology	5	MED/40
Obstetrics and Gynecology - Clinical skills	3	MED/40
Pathology	10	MED/08
Pediatrics	6	(1) MED/39, (5) MED/38
Pediatrics (clinical skills) - General and specialist pediatrics	3	MED/38
Psychiatry and Clinical Psychology	5	(1) M-PSI/08, (4) MED/25
Radiology and Radiotherapy	4	MED/36
Radiology and Radiotherapy 1 - Clinical skills	1	MED/36
Surgical clinic abd surgical therapy (clinical skills)	6	(3) MED/18, (3) MED/41
Total compulsory credits		72
<b>6th COURSE YEAR (available as of academic year 2022/23) Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Emergency medicine	4	(1) MED/09, (1) MED/18, (2) MED/41
Emergency medicine - Clinical skills	6	(2) MED/09, (2) MED/18, (2) MED/41

General surgery	4	MED/18
Internal medicine	4	MED/09
	Total compulsory credits	18
<b><i>Elective courses</i></b>		
Clinical pharmacology (clinical skills)	3	BIO/14
Medical clinic (clinical skills) - Blood diseases	3	MED/15
Medical clinic (clinical skills) - Cardiovascular system diseases	3	MED/11
Medical clinic (clinical skills) - Endocrinology	3	MED/13
Medical clinic (clinical skills) - Gastroenterology	3	MED/12
Medical clinic (clinical skills) - Infectious diseases	3	MED/17
Medical clinic (clinical skills) - Internal medicine 1	3	MED/09
Medical clinic (clinical skills) - Internal medicine 2	3	MED/09
Medical clinic (clinical skills) - Medical oncology 1	3	MED/06
Medical clinic (clinical skills) - Medical oncology 2	3	MED/06
Medical clinic (clinical skills) - Rheumatology	3	MED/16
Medical surgical specialties (clinical skills) - Maxillo-facial surgery	3	MED/29
Medical surgical specialties (clinical skills) - Odontostomatological diseases	3	MED/28
Medical surgical specialties (clinical skills) - Ophtalmological diseases	3	MED/30
Medical surgical specialties (clinical skills) - Otolaryngology	3	MED/31
Nervous system diseases (clinical skills) - Physical and Rehabilitation medicine	3	MED/34
Occupational medicine - Clinical skills	3	MED/44
Pathological anatomy (clinical skills)	1	MED/08
Pediatrics (clinical skills) - Child neuropsychiatry	3	MED/39
Psychiatry and Clinical Psychology - Clinical skills	3	MED/25
Radiology and Radiotherapy 2 - Clinical skills	1	MED/36
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) - Rheumatology	3	MED/16
Surgical clinic and Surgical therapy (clinical skills) - Cardiac surgery	3	MED/23
Surgical clinic and Surgical therapy (clinical skills) - Gastroenterology	3	MED/12
Surgical clinic and Surgical therapy (clinical skills) - General surgery	1	MED/18
Surgical clinic and Surgical therapy (clinical skills) - Neurosurgery	3	MED/27
Systems and diseases 2 (clinical skills) - Blood diseases	3	MED/15
Systems and diseases 2 (clinical skills) - Cardiovascular diseases	3	MED/11
<b><i>End of course requirements</i></b>		
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
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
Internal medicine	Systems and diseases 2	Core/compulsory
	Radiology and Radiotherapy	Core/compulsory
	Pharmacology	Core/compulsory
	Systems and diseases 1	Core/compulsory
	Pathology	Core/compulsory