



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2023/24
SINGLE-CYCLE DEGREE
Pharmacy (Classe LM-13)
enrolled from 2009/10 until 2021/22 academic year

HEADING

Degree classification - Denomination and code:	LM-13 Pharmacy and industrial pharmacy
Degree title:	Dottore Magistrale
Length of course:	5 years
Total number of credits required to complete programme:	300
Years of course currently available:	3rd , 4th , 5th
Access procedures:	Cap on student, student selection based on entrance test
Course code:	E24

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof. Marco Riva

Tutors - Faculty

Tutor per l'orientamento (suddivisione studenti in base a cognome):

Primo biennio

A-C Prof. Valerio Magnaghi

D-F Dr.ssa Silvia Araneo

G-L Prof.ssa Valeria Crippa

M-R Prof. Alessandro Pedretti

S-Z Prof.ssa Roberta Moretti

Secondo triennio

A-D Prof. Stefano Bellosta

E-H Dr.ssa Alessandra Colciago

I-M Dott.ssa. Gabriella Roda

N-Q Prof.ssa Marina Montagnani Marelli

R-Z Prof. Angelo Sala

Referente studenti lavoratori, studenti con disabilità e DSA, studenti stranieri

Prof.ssa Irma Colombo

Tutor per la mobilità internazionale e l'Erasmus

Prof.ssa Stefania Ceruti

Tutor per trasferimenti/riconoscimento crediti

Prof.ssa Irma Colombo

Tutor per tirocinio professionale in Farmacia

Coordinatore Prof.ssa Paola Minghetti

Tutor accademici (suddivisione studenti in base a cognome):

Silvia Araneo (A, D)

Chiara Grazia Milena Gennari (B)

Irma Colombo (C)

Carla Perego (F, L)

Stefania Villa (E, G, H, I)

Luca Palugan (J, K, L, N, V, Z)

Alessandro Pedretti (M)

Patrizia Restani (O, P, Q)

Alessandra Colciago (R, T, U)

Ermanno Valoti (S, W, X, Y)

Degree Course website

<https://farmacia.cdl.unimi.it/it>

Academic Coordination Board: Marco A. Riva, Irma Colombo, Arianna Gelain, Silvia Giatti, Paola Minghetti, Elisabetta Vegeto, Mauro Cantoni (social partners representative, Director of the Milan Pharmacists Association).

Via Balzaretti, 9 - Milano Email: m.riva@unimi.it

Chair of the Interdepartmental Academic Board Prof. Marco Riva

Via Balzaretti, 9 - Milano Previo appuntamento telefonico o e-mail Email: m.riva@unimi.it

Deputy Chair of the Interdepartmental Academic Board Prof. Ermanno Valoti

Via Mangiagalli, 25 - Milano Previo appuntamento telefonico o e-mail Email: ermanno.valoti@unimi.it

FIRST ENROLMENT

<https://www.unimi.it/it/studiare/immatricolarsi-e-iscrivarsi>

Pharmacy course management

via Golgi 19 - Edificio 1, ingresso D - 20133 MILANO lun, merc, ven 9:30-11:30; mar e gio 13:30-15:30

Email: scienze.farmaco@unimi.it

Programme transfer coordinator: Prof. Irma Colombo

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Secretary of the Interdepartmental Academic Board: Prof. Irma Colombo

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Student registrar

Sedi e orari: <https://www.unimi.it/it/node/360>

Student registrar

Contatti: <https://www.unimi.it/it/node/359> Phone 0250325032

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

The aim of the Degree Course in Pharmacy is to provide a range of theoretical and practical knowledge in the biological, chemical, pharmaceutical, technological, pathophysiological, pharmacological and toxicological fields, which will allow graduates to deal with the entire sequence of the complex and multidisciplinary process that from structural design leads to the production, marketing and correct use of the prescription drug, according to codified standards. The Degree Course in Pharmacy also provides advanced scientific preparation in the healthcare field aimed at forming a professional figure of expert in the drugs and their use for therapeutic purposes. This specialized figure will be capable of serving as a fundamental element of connection between patient, doctor and public health structures, collaborating in monitoring the drug on the territory, the implementation of the therapy in both the local and hospital areas and will provide the patient and the doctor all the proper indications for a correct use of prescription drugs. On these bases, graduates from the Degree Course in Pharmacy will possess the scientific bases and the theoretical and practical knowledge necessary to exercise the profession of pharmacist and to operate as experts of drugs and health products (medical devices, medical-surgical devices, cosmetics, dietetics, food supplements, herbal products, in vitro diagnostics).

Expected learning outcomes

To achieve these educational objectives, the Degree Course in Pharmacy will provide the graduates the following:

- 1) a strong preparation on basic science topics (physical, chemical, biological, medical) with the aim of becoming acquainted with the scientific approach for solving problems inherent to his/her professional activity;
- 2) a thorough knowledge of the composition, technological characteristics, therapeutic efficacy, contraindications, ways of use, regulations and any other indication relating to the drugs;
- 3) the ability to apply the acquired scientific knowledge (chemical, biological, pharmaceutical, pharmacological, toxicological, technological, legislative and deontological) in the dosage of drugs, in the recognition of drugs with purity tests, and in the preparation of galenics;
- 4) adequate knowledge of biochemistry, pathophysiology and nutrition to be able to provide valid support in the therapeutic activities proposed by the doctor, promoting compliance and therefore the therapeutic result;
- 5) adequate knowledge in the field of drug-epidemiology and pharmacovigilance, aspects increasingly required for the correct use of drugs in the population;
- 6) knowledge of the legislative contexts and of their professional and ethical responsibilities necessary to undertake the profession in full autonomy;
- 7) the knowledge and learning ability required to face the specialization courses and Schools in Pharmaceutical and Pharmacological Areas.

To this end, the Degree Course in Pharmacy focuses in particular on the chemical (general and inorganic chemistry, organic chemistry), biochemical, technical- and chemical-pharmaceutical, pharmacological disciplines and also emphasizes practical

laboratory activities. Other in-depth areas concern the aspects related to stability, toxicity, formulation, research and development, and information for medicines and health products. Graduates in Pharmacy should have acquired multidisciplinary knowledge, which is essential for understanding the active substance, its structure and activities in relation to the interaction with biomolecules at a cellular and systemic level.

Professional profile and employment opportunities

The professional profile of pharmacist generated will be of a healthcare professional who contributes to the achievement of the objectives set by the National Health Service in the context of his scientific and technological multidisciplinary skills, in order to adequately respond to the changing needs of the society in the health field.

With the achievement of the Degree in Pharmacy and the related professional qualification, graduates will carry out, in accordance with Directive 2005/36 / EC, and subsequent amendments, the profession of pharmacist and will be authorized to exercise the following professional activities:

- preparation of the pharmaceutical form of drugs;
- manufacture and control of drugs;
- control of drugs in control laboratories
- storage, conservation and distribution of drugs in the wholesale trade phase;
- preparation, control, storage and distribution of drugs in pharmacies open to the public;
- preparation, control, storage and distribution of drugs in hospitals (hospital pharmacies);
- dissemination of information and advice in the field of drugs use.

These activities fall within the minimum common field coordinated by this directive; the training course may also consider other professional activities carried out in the European Union in the field of drugs in order to allow equal employment opportunities in the European context.

Initial knowledge required

Admission requirements

Admission to the single-cycle Master's degree programme in Pharmacy is capped pursuant to Law no. 264 of 2 August 1999. Applicants to the single-cycle Master's degree programme in Pharmacy must hold an upper secondary-school diploma or equivalent qualification obtained abroad, and adequate knowledge.

Admission assessment

Admission to the first Year of the single-cycle Master's degree programme in Pharmacy is subject to the candidate's taking the online multiple-choice TOLC-F test by CISIA (<http://www.cisiaonline.it/>). This selective test assesses the knowledge and skills required for attending the programme. The TOLC-F test consists of four sections, with questions on Biology, Chemistry, Mathematics, Physics, Logic and English (optional). The required knowledge level is equal to that achieved in upper secondary school. The schedule of TOLC-F tests held by our and other Italian universities is available at <https://tolc.cisiaonline.it/calendario.php>. Enrolment procedures and deadlines will be detailed in the call for applications to be posted on the University website at <https://farmacia.cdl.unimi.it/it/iscriversi>.

The required knowledge will be assessed through the admission test. In order to meet these requirements, candidates must achieve the minimum score set out in the call for applications. Admission is based on merit ranking, up to the number of places available.

Waivers from test requirements and admission to years subsequent to the first one are governed by the call for applications. For information: <https://farmacia.cdl.unimi.it/it/iscriversi>.

Additional learning requirements (OFA) and remedial activities

Enrolled students who have not achieved at least 4 points in the basic mathematics module of TOLC-F will have to fulfil additional learning requirements (OFA). For this purpose, they will attend remedial activities organized by the University, and then take a remedial test to prove they have filled their gaps. Students with OFA may not take the Mathematics and Statistics exam before fulfilling said requirements.

Learn more at <https://farmacia.cdl.unimi.it/it/studiare/le-matricole>.

Candidates who took the test and were not admitted may enrol in a limited number of single courses (with up to 60 places available), as provided by academic regulations, to earn credits to be used for future enrolment in a degree programme, upon passing the admission test, if any.

Transfer students

In case of transfer from another degree programme or from another university, admission to years subsequent to Year I will be subjected to an assessment of the student's previous academic records by the Interdepartmental Academic Board. Please refer to the call for applications for further details.

Compulsory attendance

Attendance is mandatory for laboratory courses, and strongly recommended for lectures.

Internship criteria

Starting from the second semester of Year IV, the student can start a professional internship in retail or hospital pharmacies after completing general and specific safety training courses held by the University and by the Association of Pharmacists, respectively, and passing all the exams of the first three years, which are graded on a scale of thirty. Starting from the second semester of Year III, students who were enrolled in Year II as 'repeaters' after failing to complete first-year exams within the

deadline, and who have passed all the exams of the first three years, which are graded on a scale of thirty, may be authorised to start the internship by a resolution of the Interdepartmental Academic Board of the degree programme in Pharmacy. The Pharmacy internship must last six months full-time pursuant to art. 44(2)(b) of European Directive 2005/36/EC. Upon completion of the internship, the student will earn 30 credits (CFU). All the information regarding Pharmacy internships can be found at <https://www.unimi.it/en/node/12683/>.

Degree programme final exams

The final exam will award 15 CFU and it is based on the preparation of a paper on a subject covered by a course that the Upcoming graduates have taken and linked to their internship, to be agreed with the course lead instructor or another instructor in the same subject area. The chosen instructor will oversee the thesis work and act as the candidate's supervisor at the final exam before the Degree Board. This paper will relate to a research project carried out by the student in the laboratories of the University or other affiliated public or private entities; alternatively, the student may collect and discuss bibliographic materials or other data in line with the contents of their degree programme. After passing the final exam, the candidate will be awarded a Master's degree in Pharmacy.

Admission to the final exam is subject to earning at least 285 CFU (277 for experimental theses) for the exams and internship.

Notes

In order to get their degree, students are required to certify their knowledge of the English language at the B2 level. This level can be certified in one of the following ways:

- By submitting their language certificate, taken no more than 3 years before its submittal and attesting a B2 or higher level (for the list of the language certificates which are accepted by the University of Milan, please refer to the website: <http://www.unimi.it/studenti/100312.htm>). Students can submit their language certificate during the immatriculation procedure.

- By sitting the placement test run by SLAM, during the first year exclusively, from September to December. Should they not pass the Placement Test, students will have to attend the English language course organized by SLAM. All students who do not have a valid language certificate must sit the Placement Test. Those students who do not sit the Placement test by December or do not pass the end of course test in one of the 6 attempts granted will have to get a language certificate outside the University of Milan within their degree.

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

Thanks to mobility programs such as Erasmus +, Erasmus + Placement, and Erasmus Mundus, the Degree Course in Pharmacy offers its students the opportunity to spend training periods abroad. The Erasmus Placement Program also offers the possibility of carrying out a training internship abroad in companies as well as in other organizations or universities.

University and Institution partners involved in these programs mainly reside in Europe and the Balkan regions.

The locations, with whom Agreements have been established, offer the possibility of carrying out activities in a wide range of areas. During the mobility period, the student can:

- continue his/her studies by attending courses and the respective exams;
- carry out the thesis;
- carry out the internship in Hospital Pharmacies.

Each student is followed by a tutor identified within the Course.

Procedure for the recognition of study periods abroad: each student must propose a Learning Agreement regarding the training activities that lead to the recognition of a number of credits adequate for the period of stay abroad, namely:

- 60 credits for an academic year;
- 30 credits for an academic semester;
- 20 credits for an academic quarter;
- 20 credits for the internship period in the hospital pharmacy whose maximum duration is 4 months.

The study period abroad will be recognized as valid upon the acquisition of at least 70% of the credits specified in the learning agreement, while the thesis or internship activity will be considered valid only after acquisition of all credits.

For students who have satisfactorily accomplished the training program, the appropriate incentives, proposed by the teacher in charge, will be given by the Faculty's Commission during the graduation session. More specifically, additional points will be added to the degree mark, varying from a minimum of 1 to a maximum of 3 points depending on the duration of the study period, the amount of credits attained, and the overall results obtained by the student.

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 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; mobility.out@unimi.it

Student Desk booking through InformaStudenti

1st COURSE YEAR (disactivated from academic year 2022/23) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Analytical Chemistry	8	CHIM/01
Animal Biology	7	BIO/13
Calculus and Statistics	6	MAT/05
English proficiency B2 (2 ECTS)	2	ND
General and Inorganic Chemistry and Stoichiometry	10	CHIM/03
Human Anatomy	9	BIO/16
Physics	6	FIS/01
Plant Biology and Pharmaceutical botany	8	BIO/15
Total compulsory credits		56
2nd COURSE YEAR (disactivated from academic year 2023/24) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
APPLIED MICROBIOLOGY AND HYGIENE	10	BIO/19, MED/42
General Biochemistry	6	BIO/10
General Pharmacology and Pharmacognosy	10	BIO/14
Inorganic Analysis of Substances having Pharmaceutical Interest and Qualitative Analysis Laboratory	7	CHIM/08
Organic Chemistry	10	CHIM/06
Physiology	11	BIO/09
Total compulsory credits		54
3rd COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Computer Science Course	3	INF/01
General Pathology and Pathophysiology	11	MED/04
Medicinal Chemistry 1	10	CHIM/08
Metabolic and Functional Biochemistry	8	BIO/10
Nutrition Physiology and Pharmacology, and Dietetic products	10	(3) BIO/09, (4) CHIM/10, (3) BIO/14
PHARMACOLOGY AND PHARMACOTHERAPY	10	BIO/14
Principles of quantitative pharmaceutical analysis and Laboratory for quantitative analysis	8	CHIM/08
Total compulsory credits		60

4th COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Assays and methods of analysis of the Pharmacopoeias and lab of drug identification	12	CHIM/08
Chemotherapy and biological drugs	8	BIO/14
Medicinal Chemistry 2	10	CHIM/08
Pharmaceutical Technology and Legislation I and Laboratory of Pharmaceutical Technology I	12	CHIM/09
Toxicology	10	BIO/14
	Total compulsory credits	52
Elective courses		
COSMETIC PRODUCTS	8	CHIM/09
Drug development and scientific communication	8	BIO/14
Drugs and innovation	8	BIO/14
Experimental laboratory	8	ND
Hormones/phytohormones and Metabolic diseases	8	(4) MED/13, (4) MED/05
Pharmaceutical market and Regulatory aspects of health products	8	CHIM/09
PHYTOPHARMACY	8	BIO/14
5th COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
APPLIED PHARMACOLOGY	7	BIO/14
Pharmaceutical Technology and Legislation II and Lab of Pharmaceutical Technology II Medical Devices and Cosmetic prod	12	CHIM/09
Toxicological Chemistry and Laboratory of Chemical and Toxicological Analysis	6	CHIM/08
	Total compulsory credits	25
End of course requirements		
FINAL EXAM	15	NA
Professional training in pharmacy (first part)	10	NA
Professional training in pharmacy (second part)	20	ND
	Total compulsory credits	45

COURSE PROGRESSION REQUIREMENTS

The attendance at the laboratory courses is mandatory and it is mandatory the enrollment to such laboratories. For the modality and timing of the enrollment in laboratory courses, students must carefully consult the website of the Degree Course <https://www.unimi.it/it/corsi/corsi-di-laurea/farmacia-ciclo-unico>, and the Ariel website of the teachers, who is responsible for the specific laboratory.

ADMISSION TO LABORATORIES

The admission to the LABORATORY QUALITATIVE OF ANALYSIS is subordinate to passing the exam of GENERAL AND INORGANIC CHEMISTRY, AND STOICHIOMETRY, by February 28 of the academic year of attendance of the laboratory itself.

The admission to the LABORATORY OF QUANTITATIVE ANALYSIS is subordinate to the attendance (not to passing the exam) of the LABORATORY QUALITATIVE OF ANALYSIS. Since the LABORATORY OF QUANTITATIVE ANALYSIS is dispensed in the second semester, the laboratory of qualitative analysis can be attended in the first semester of the same academic year.

The admission to the LABORATORY OF DRUG IDENTIFICATION is subordinate to passing the exam of the PHARMACEUTICAL AND TOXICOLOGICAL CHEMISTRY I by January 31st and to the attendance (not to passing the exam) of the LABORATORY OF QUANTITATIVE ANALYSIS.

The admission to the LABORATORY OF PHARMACEUTICAL TECHNOLOGY I is subordinate to passing the exam of ORGANIC CHEMISTRY and to the attendance (not passing the exam) of the LABORATORY OF QUANTITATIVE ANALYSIS.

The admission to the LABORATORY OF PHARMACEUTICAL TECHNOLOGY II is subordinate to the attendance (not passing the exam) of the LABORATORY OF PHARMACEUTICAL TECHNOLOGY I.

The admission to the LABORATORY OF CHEMICAL AND TOXICOLOGICAL ANALYSIS is subordinate to the attendance (not the passing of the exam) of the LABORATORY OF DRUG IDENTIFICATION.

PREREQUISITES TO EXAMS

Concerning the prerequisites for the exams, students can take the exams listed in the left column of the table below only after having passed the exams reported in the right column.

Removal of prerequisites to exams - If an exam is not included in the right column of the Student Information Booklet, but it was reported in the Student Information Booklets of previous academic years, the removal of this prerequisite is extended to all students, regardless of their year of enrollment.

Addition of prerequisites to exams - If new prerequisites to exams are inserted in the Student Information Booklets, students must respect them if they are present in the Student Information Booklets of the academic year preceding the one in which they take the exam.

Learning activity	Prescribed foundation courses	O/S
APPLIED PHARMACOLOGY	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
PHARMACOLOGY AND PHARMACOTHERAPY	General Biochemistry	Core/compulsory
	Physiology	Core/compulsory
	General Pharmacology and Pharmacognosy	Core/compulsory
Metabolic and Functional Biochemistry	General Biochemistry	Core/compulsory
General Biochemistry	General and Inorganic Chemistry and Stoichiometry	Core/compulsory
	Animal Biology	Core/compulsory
Medicinal Chemistry 2	Medicinal Chemistry 1	Core/compulsory
Medicinal Chemistry 1	Organic Chemistry	Core/compulsory
	Physiology	Core/compulsory
Organic Chemistry	General and Inorganic Chemistry and Stoichiometry	Core/compulsory
General Pathology and Pathophysiology	General Biochemistry	Core/compulsory
	Physiology	Core/compulsory
Nutrition Physiology and Pharmacology, and Dietetic products	General Biochemistry	Core/compulsory
	Physiology	Core/compulsory
	General Pharmacology and Pharmacognosy	Core/compulsory
Pharmaceutical Technology and Legislation I and Laboratory of Pharmaceutical Technology I	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
	Medicinal Chemistry 1	Core/compulsory
	Physiology	Core/compulsory
Toxicological Chemistry and Laboratory of Chemical and Toxicological Analysis	Assays and methods of analysis of the Pharmacopoeias and lab of drug identification	Core/compulsory
Assays and methods of analysis of the Pharmacopoeias and lab of drug identification	Medicinal Chemistry 1	Core/compulsory
	Principles of quantitative pharmaceutical analysis and Laboratory for quantitative analysis	Core/compulsory
Principles of quantitative pharmaceutical analysis and Laboratory for quantitative analysis	Inorganic Analysis of Substances having Pharmaceutical Interest and Qualitative Analysis Laboratory	Core/compulsory
Inorganic Analysis of Substances having Pharmaceutical Interest and Qualitative Analysis Laboratory	General and Inorganic Chemistry and Stoichiometry	Core/compulsory
	Analytical Chemistry	Core/compulsory
Physiology	General and Inorganic Chemistry and Stoichiometry	Core/compulsory
	Animal Biology	Core/compulsory
	Physics	Core/compulsory
	Calculus and Statistics	Core/compulsory
	Human Anatomy	Core/compulsory
APPLIED MICROBIOLOGY AND HYGIENE	Animal Biology	Core/compulsory
	Human Anatomy	Core/compulsory
Hormones/phytohormones and Metabolic diseases	General Pathology and Pathophysiology	Core/compulsory
Drug development and scientific communication	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
PHYTOPHARMACY	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
Pharmaceutical market and Regulatory aspects of health products	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
Pharmaceutical Technology and Legislation II and Lab of Pharmaceutical Technology II Medical Devices and Cosmetic prod	Medicinal Chemistry 2	Core/compulsory
	Pharmaceutical Technology and Legislation I and Laboratory of Pharmaceutical Technology I	Core/compulsory
	Chemotherapy and biological drugs	Core/compulsory
General Pharmacology and Pharmacognosy	Animal Biology	Core/compulsory
	Plant Biology and Pharmaceutical botany	Core/compulsory
	Human Anatomy	Core/compulsory
Drugs and innovation	General Pharmacology and Pharmacognosy	Core/compulsory
Toxicology	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
Chemotherapy and biological drugs	PHARMACOLOGY AND PHARMACOTHERAPY	Core/compulsory
	APPLIED MICROBIOLOGY AND HYGIENE	Core/compulsory