UNIVERSITÀ
DEGLI STUDI
DI MILANO

Master's degree programme in

Cosmetic industrial science

facoltà di

SCIENZE DEL FARMACO

Applications and admissions

Open, subject to entry requirements.

Admission requirements

Eligible for admission

1. Graduates
   - in the following classes, as well as in the corresponding classes related to DM 509/99: Chemical Sciences and Technologies (L-27), Pharmaceutical Sciences and Technologies (L-29);
   - in other classes, as well as graduates in master's, specialist and four-year degree programmes allowed by a resolution of the competent boards, provided they meet the following minimum requirements: at least 35 ects earned in mathematical, physical, chemical and biological disciplinary fields, of which a minimum of 25 ects acquired in the chemical and biological disciplinary fields and a minimum of 15 in the chemical one;
   - in possession of a degree obtained abroad recognized as eligible, on the basis of correspondence with Italian degrees.
2. Students with proven language skills in English, at least at level B2 (Common European Framework of Reference). These will be ascertained by the University Language Centre (SLAM) upon admission as follows:
   - language certificate of B2 or higher level issued no more than three years before the date of admission application;
   - English level achieved during a University of Milan degree programme and certified by the University Language Centre (SLAM) no more than four years before the date of admission application. In this case the process is automatic, the applicant does not have to attach any certificates to the application;
   - placement test administrated by the University Language Centre (SLAM).

The verification of the possession of the pre-established curricular requirements for the admission to the Master's degree programme and the evaluation of the personal skills of candidates are in charge of a Committee for admittance appointed by the Teaching Board. Access to the programme is regulated by a compulsory test aimed at ascertaining the initial skills of the candidates, with a view to successfully completing their course of studies. Additional information posted on the web site of the course https://cosmis.cdl.unimi.it/en/enrolment.

Objectives

The Master's degree programme in Cosmetic Industrial Science aims to train a graduate with advanced skills in the research, development, industrial production, quality control and marketing of cosmetic products. This graduate will be immediately ready for placement in qualified positions, at different levels within cosmetic companies.

The skills and the competencies necessary for the achievement of such goals are acquired through:

- theoretical lectures
- laboratory activities
- an internship, to be carried out preferably in cosmetic companies during the last semester.

The Master's degree in CosmIS provides advanced skills in:

- inorganic, organic and polymer chemistry associated with cosmetic ingredients, their chemical-physical and technological characteristics and their main applications in industry;
- physiology and biochemistry of skin and skin annexes;
- functional ingredients, development, production and technologies for packaging of the main categories of cosmetic products (skincare, hygiene, make-up, scents);
- advanced analysis of cosmetic ingredients and products;
- toxicological analysis and risk assessment, with special reference to cosmetics;
- regulatory and normative provisions, with special reference to the cosmetic field;
- marketing, communication and business plan, with special reference to the cosmetic field.

Career prospects

Graduate students in Cosmetic Industrial Science will reach a high degree of autonomy in the work environment, allowing them to hold positions of high responsibility in companies focused on the synthesis/production/marketing of cosmetic raw materials and on the formulation/development of skincare, hygiene and make-up products, their packaging, related sales, and control/safety. They may also assume responsibilities as project or lab leaders in academic research laboratories or find employment in agencies responsible for the development of technical regulations and quality certification of cosmetic products. Studies conducted in English will enable graduates to meet the challenges of the global economy, facilitating their immediate entry into the job market.

The specific career outlets within the cosmetics industry are:

1. Research and development (R&D) and production specialist
   He/She defines development issues and research programs, in tune with company strategies; designs/formulates new small-scale products studying their tech-transfer and industrialization, proposing the necessary technical resources, budget and investment for project.

2. Quality specialist
   He/She supervises the quality assurance system in the cosmetic company, i.e., he/she develops protocols for analyzing and controlling the quality of processes, coordinates the departments involved in the manufacture of the product to ensure that the quality system is efficiently organized and documented, ensures that inspections are periodically planned and properly performed to evaluate the effectiveness and applicability of the quality assurance system.

3. Regulatory specialist
   He/She is responsible for the collection, processing, updating and reporting-disclosure, as required by the relevant regulations, of all information relating to the safety of cosmetic ingredients and products, including post-marketing. He/she is an expert in the authorization procedures for the marketing of products, and sets up and maintains documentation in support of the application, interfacing, when necessary, with the in charge regulatory bodies.

4. Specialist in cosmetics market relations (cosmetic informant)
   He/She conveys scientific knowledge about cosmetic ingredients and products in the areas of the cosmetics company more specifically dedicated to sales. In this respect, he/she is the reference person from which marketers learn the essential technical information for a correct promotion of the products. He/she fosters dialogue and synergy between different areas such as research and development, production, and marketing.

Degree syllabus

I year

COMPULSORY LEARNING ACTIVITIES	ECTS
I semester	
Inorganic ingredients	6
Organic ingredients	8
Polymeric ingredients	6
II semester	
Decorative cosmetics development	6
Functional ingredients	7
Skincare and personal hygiene products development and regulation	6
Toxicology and risk assessment	6
Annual	
Physiology and biochemistry of skin and skin annexes + Microbiological contamination and controls	9

II year

COMPULSORY LEARNING ACTIVITIES	ECTS
I semester	
Analysis of cosmetic ingredients and products	7
Marketing, Business planning, Project evaluation and Regulatory affairs	5
Technologies for manufacturing and packaging (materials and processes)	6
Optional courses	8
Other training activities	3
Final examination	3
Thesis work	34

INFO

Disciplinary classification: Industrial chemistry (LM-71 R)

Duration: 2 years (120 ects)

Attendance: strongly recommended to the course, mandatory for individual laboratories experiences

Location:
- via Colombo, 25 - Milan (headquarters of the Department of Pharmaceutical Sciences)

Websites:
cosmis.cdl.unimi.it
www.unimi.it/en

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For other information: www.unimi.it - Education