Presentazione del corso di laurea magistrale a ciclo unico in Pharmacy

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PHARMACY
@ Rimini Campus

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RIMINI CAMPUS

Foundation: 1970
Nr of students: over 6,000
Nr of courses: 19 (8 inter.)
Teaching staff: >than 100

Pharmacy: 1996
The presence of the Department of Science for the Quality of Life (2012)

It is the most international campus of Unibo.
WHY PHARMACY?

To become an expert of the well-being and an important reference specialist for people's health.
WHY PHARMACY?

It is a tailor-made course in a dynamic campus and in an exiting city like Rimini.
Pharmacy is the meeting point for drug, health, biological and chemical sciences.
WHY PHARMACY?

It educates the students directly to the work of Pharmacist and to face the different international realities of other European countries.

“My job is not just helping people to feel better, but to live better.”
I'm Making Better Possible.
Leigh Ann, Pharmacist

walmart.com/rxcareers
WHY PHARMACY?

It offers several job opportunities in the supply chain of the drug and health products.
Different Areas of Knowledge (UE regulation)

**Biological Area**
- Animal biology
- Plant Biology
- Pharmaceutical Botany
- Human Anatomy
- Human Genomics
- Biochemistry
- Molecular Biology
- Human Physiology
- General Pathology
- Microbiology
- Public Health
- Pharmacology
- Pharmacognosy
- Pharmacogenetics

**Biological Area**
- Pharmacotherapy
- Phytotherapy
- Nutraceutics
- Toxicology
- Pharmacology of Biotechnological Drugs
- Pharmaceutical Care
- Bioethics

**Chemical Area**
- General and Inorganic chemistry
- Organic Chemistry
- Analytical Chemistry
- Medicinal and toxicological Chemistry
- Medicinal Chemistry of Biotechnological Drugs
- Drug Analysis
- Chemistry and Nutraceutical-Food Technology

**Technological Area**
- Pharmaceutics
- Pharmaceutical Legislation
- Pharmacoeconomics
Laboratory Practice

- Analytical Chemistry
- Drug Analysis I and II
- Pharmaceutics I and II
- Microbiology
- Applied Biochemistry
Programme enrolment

• The selection takes place through an evaluation of the personal knowledge of the following topics: Mathematics, Physics, Chemistry, Biology, Logic (TOLC-F or SAT)
• For Non-EU students with residency abroad: SAT or personal dossier evaluation
• Three intakes (July, September and October)
• Certified English B2 level at least
• Number of places: 100 (50 for each intake)
Different types of Internships

Internships in a Pharmacy (Italy or part abroad in UE)
This is a mandatory period of practical activity (six months, full time) carried out in a pharmacy open to the public, or in a hospital, under the supervision of the pharmaceutical service. It is a requirement for access to the profession of pharmacist.

Internships for Final Dissertation (only for experimental or professional practical thesis)
This is a practical or experimental activity on an original theme carried out at a research laboratory of the University or at external affiliated structures under the guidance of a lecturer.
Internationalization is an inherent dimension of the entire educational offer of the Pharmacy area and students are encouraged to participate in international mobility programs in Europe and in countries outside Europe:

- to take exams of the course of study
- to carry out the internship period
- to prepare their final dissertation

The experience abroad is an opportunity that can enrich their training and the ability to act effectively in an international dimension.
The main professional activities for graduates in Pharmacy

- Professional figure: **Pharmacist** (after passing the state exam, and after enrolment in the professional register)

- It works in **pharmacies**, where it prepares, controls and distributes drugs, and provides information on the characteristics and proper use of drugs or other health products.

- It works in **hospital pharmacies** or **structures of the SSN**, where it manages drugs, provides appropriate information and documentation for clinical use, and collaborates in the control of the use of drugs.
The main professional activities for graduates in Pharmacy

- It operates in **industries** of the **pharmaceutical sector**, both in research and development laboratories, both in the preparation and control of products, and in the activity of information and dissemination of products.
- Graduates in Pharmacy can enroll in the **registers** of **Pharmacists** or **Chemists** (section A)
- In accordance with **Directive 85/432/EEC**, with the attainment of the Single Cycle Master's Degree in Pharmacy and the relative professional qualification, you are qualified to carry out the profession of pharmacist within the **entire European Union**.
EUROPEAN CARD

The European Professional Card
Available since January 2016 for:
- Pharmacists, mountain guides, real estate agents,
- physiotherapists and general care nurses

https://europa.eu/youreurope/citizens/work/professional-qualifications/european-professional-card/index_it.htm
• Number of Pharmacists by European country

This statistic displays the number of pharmacies in Europe in 2015, by country. That year, Turkey counted nearly 25,000 pharmacies.
The Many Faces of Pharmacists

Manufacturing
- Your Gatekeeper
  - Ensures the implementation of good manufacturing practice in pharmaceutical companies.
  - Controls quality of medicines to ensure their quality and safety.
  - Revamps drug manufacturing processes to lower costs of medicines in the market.

Regulations
- Your Law Enforcer
  - Formulates and implements healthcare policies/regulations in Singapore.
  - Prepares new drug applications to enable timely access of safe, efficacious and high quality medicines.
  - Safeguards the import and registration of medicines and medical devices.

Academic
- Your Drug Discoverer
  - Plays a pivotal role in educating future generations of pharmacists.
  - Engaging in research activities.

Research
- Your Clinical Researcher
  - Finds new cures for untreated illnesses or medicines with less side effects for the benefit of patients.
  - Plays various roles from designing or implementing protocols to conducting of trials, to study or compare effectiveness and safety of new medicines before its launch into markets.

Marketing
- Your Medication Distributor
  - Introduces and educates healthcare providers on new treatment options.
  - Acts as an important channel of distribution from pharmaceutical companies to the end-users.

Hospital
- Your Patient-Care Team Player
  - Provides professional advice on best choice of medicines for each patient.
  - Manages the inventory to ensure continuous supply of safe and high quality medicines.
  - Fills your prescriptions.
  - Conducts specialised clinics to manage blood pressure, diabetes and anticoagulation.
  - Formulates policies and treatment guidelines within hospitals.

Community
- Your Partner in Healthcare
  - Manages minor ailments (cough, cold, gastric discomfort and fungal infections etc).
  - Provides smoking cessation counselling and weight management services.
  - Advises on your supplements and vitamins.
  - Fills your prescriptions.

Personalized therapy

New course in English

Therapeutic adherence

Pharmaceutical care

Pharmacy @Rimini Campus
The employment status of single-cycle master courses:

Rapporto del consorzio Interuniversitario AlmaLaurea, 2017
In Italy, 5 years after graduation:
84% of graduates work, 80% of employment is of a stable type
95% of graduates consider the degree obtained to be very effective/effective
From Report of AlmaLaurea, 2016
L’Italia è il 1° produttore farmaceutico dell’Ue

- 65.400 addetti (90% laureati e diplomati), il 42% donne e altri 66.000 nell’indotto
- 6.400 addetti alla R&S, il 52% donne
- 31,2 miliardi di euro di produzione, il 79% destinato all’export (24,8 miliardi di euro)
- 2,8 miliardi di euro di investimenti, dei quali 1,5 in R&S e 1,3 in produzione
- 60% di imprese a capitale estero
- 40% di imprese a capitale italiano

Fonte: elaborazioni su dati Istat, Eurostat, EFPIA
Italian Situation of pharmaceutical Industry

The number of workers is higher in Lombardia, Lazio ed Emilia Romagna.

Produzione dell’industria farmaceutica italiana sul territorio nazionale
Fonte: Farmindustria, elaborazione su dati ISTAT/Banca d’Italia, 2018
For years Italy has played a leading role in Europe in the pharmaceutical industry, as demonstrated by the important figures recorded in 2018: production value of about 32 billion euros and constant export growth (+117% in 10 years). The sector is lively and proactive, with many job offers for graduates (just 10% of pharmaceutical workers are now in fact in possession of the "only" diploma) and is also constantly evolving. It is no coincidence that, according to the latest Farmindustria data, about 3,000 new jobs are expected by 2021 in the sector and of these units, about half will concern "new" tasks. The work evolves, thanks to innovation and digitization, thus imposing on pharmaceutical companies the constant search for new professional figures, which are characterized by a strong multidisciplinary and continuous training.

We are waiting for you in Rimini

House of Surgeon (and Pharmacist!!)

Rimini is the birthplace of the factory of well-being and health

A Rimini nasce 'Faibene: Fabbrica del Ben-Essere' per la tutela della salute
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