

MASTER

Analytical Chemistry for Drugs and Natural Products

Program factsheet

ACADEMIC COOPERATION

Consortium of fifteen partners:

- › Algeria: University of Algiers
- › Brazil: Universidade de São Paulo
- › Canada: Concordia University, Université de Montréal
- › France: University of Bordeaux
- › Germany: Max Rubner Institute
- › Iceland: Sigillum Universitatis
- › Italy: Università di Parma, Università degli studi di Ferrara
- › Japan: University of Tsukuba
- › Morocco: Agence Nationale des Plantes Médicinales et Aromatiques
- › Portugal: Instituto Politécnico de Bragança
- › Turkey: Hacettepe University
- › United States: University of California San Diego, University of South Florida

Program outline

This second year Master degree allows students to deepen their theoretical and practical knowledge in the field of analytical chemistry and the control of drugs and health products that are based on plants. It focuses on the quality control of such health products compared to international standards.

The Master degree also aims to increase the safety of therapeutic products that are based on plants and which are therefore not concerned by the pharmaceutical circuit controls.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirement:

- › Hold a first level Master in pharmacy or 4 years study in pharmacy, chemistry or biochemistry.

LEVEL

Master degree: 2nd year.

PROGRAM DURATION

1 year (60 ECTS).

LANGUAGE REQUIREMENTS

English: certifiable equivalent of TOEFL score of 550/213/79-80 or IELTS score of 6.0

TUITION FEES

3,370€ for non-EEA students.

The program thus develops a strong interdisciplinary dimension through the involvement of pharmaceutical sciences, technical sciences and the legal domain.

Program structure

Semester 1

Education units in Bordeaux

- › Access to Euro- Mediterranean market of drugs and other health products (3 ECTS)
- › Microbiology control and quality (2 ECTS)
- › Drug design & pharmaceutical technology for drugs and natural products (3 ECTS)
- › Quality control applied to drugs (3 ECTS)
- › Research and development of analytical methods for drugs and other health products (3 ECTS)
- › English & communication skills (3 ECTS)
- › Quality by design & chemometry (3 ECTS)
- › International symposium of analytical method development and quality control (1 ECTS)
- › Validation (1 ECTS)

Project management

- › International management skills
- › Project management in Morocco (two month obligatory international mobility period at the Agence Nationale des Plantes Médicinales et Aromatiques)

Semester 2

- › Training period of six months in France or abroad (30 ECTS)

Strengths



Permits students from pharmacy and other specialties to acquire strong skills in analytical chemistry for drugs and natural products.



Includes "hands-on" qualification training for key techniques using the latest equipment from the university laboratories for chemical and structural analysis.



Develops global knowledge about analytical and regulatory problems related to counterfeit drugs and health products.

→ And after?

- › Graduates from the School of Pharmacy of the University of Bordeaux have an excellent employment record.
- › Graduates may access leading positions within pharmaceutical organizations; the cosmetics and food industry in France and around the world.

How to apply?

Students may apply online:

- › <https://apoflux.u-bordeaux.fr/etudiant/>

Contact

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