MASTER
Analytical Chemistry for Drugs and Natural Products

Program factsheet

ACADEMIC COOPERATION
Consortium of two partner universities:
› France: University of Bordeaux
› Morocco: Mohammed V University - Rabat

ADMISSION REQUIREMENTS
Candidates must fulfill the following requirement:
› Hold a first level Master in pharmacy or 4 years study in chemistry, biochemistry or engineering.

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
› 6,000€ for EEA students and 8,600€ for non-EEA students. Fees include accommodation and flights for the international mobility period in Morocco.
› Scholarships: Erasmus Mundus Act. 2, partnerships (students), University of Bordeaux Initiative of Excellence, Aquimob.

Program outline

This second year Master degree allows students to deepen their theoretical and practical knowledge in the field of analytical 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.

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

College of Health Sciences
**Program structure**

**Semester 1**

**Education units in Bordeaux**
- Validation (1 ECTS)
- 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 analytical development (3 ECTS)
- English & communication skills (3 ECTS)
- Quality by Design & Chemometry (3 ECTS)

**Education units in Rabat-Morocco**
- Project management: drug control and natural products (9 ECTS)

**Semester 2**

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

**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/](https://apoflux.u-bordeaux.fr/etudiant/)

**Contact**

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**Strengths**
- Permits students from pharmacy and other specialties to acquire strong skills in analytical chemistry for drugs and natural products.
- Develops global knowledge about analytical and regulatory problems related to counterfeit drugs and health products.
- Includes "hands-on" qualification training for key techniques using the latest equipment from the university laboratories for chemical and structural analysis.

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**University of Bordeaux,**
France
**Mohammed V University – Rabat,**
Morocco