DRUG SCIENCES

Master's degree program

Master of Science: M Sc Drug Sciences

The Master of Science Drug Sciences provides theoretical and practical skills surrounding the discovery, development and safety aspects of drugs. This Master program is focused on a future career in industrial or academic research, product development or in a regulatory agency.

Focal area of teaching and research

The Department of Pharmaceutical Sciences and its associates offer a comprehensive Master's program for students with a Bachelor's degree in pharmaceutical sciences. Students with a Bachelor in a related field within the natural or medical sciences are also encouraged to apply (see chapter «Admission»). This program provides basic knowledge focusing on pharmacology and toxicology as well as on the drug discovery and development process. The curriculum was developed by the Department of Pharmaceutical Sciences at the University of Basel in close collaboration with scientists from the Department of Biomedicine, the Basel-based life science industry, the Swiss Centre for Applied Human Toxicology (SCAHT) and regulatory authorities.

Program structure master studies

The Master of Science degree is the postgraduate degree after the Bachelor's program. The MSc Drug Sciences awards 120 ECTS credits in total. The program comprises subsequent block courses along the drug discovery and development pipeline, specialized lectures and seminars, practical training, as well as a ten month supervised Master's thesis. Two specialization modules as well as elective courses allow students to choose their focal areas and to promote individual skills.

Curriculum Master's Degree in Drug Sciences	ECTS
The Drug Discovery Pipeline: From Concept to Clinic	20
Special Topics in Drug Discovery and Development (at least 5 ECTS) Special Topics in Toxicology (at least 5 ECTS)	20
General Skills and Experimental Tools	3
Practical Training	8
Master's Thesis	50
Master's Examination	4
Electives (of which at least 11 ECTS must be taken inside the Faculty of Science offerings)	15
Total	**120**

One ECTS credit point roughly equals 30 hours of study.

Program language
The language of instruction is English.

Exams
Student performance is assessed through course accompanying certificates, proof of course participation according to study contracts, a Master's thesis and through a Master's examination.

Language stays / Internships
No language stays or internships are required.

Combination of subjects
The degree programs at the Faculty of Science are generally mono-programs with the possible addition of an in-depth subject and an elective subject. The Master's degree program Drug Sciences does include an elective subject; however, no other subjects are required.

Start of program
The program starts in the fall semester.

Duration of study
The Master's program lasts four semesters. There are no restrictions on the duration of study. In the case of a conditional admission, time restrictions on completing additional requirements may apply.

Further degrees
Doctorate: The Master in Drug Sciences qualifies for a doctorate at the Graduate School of Science. In some cases, acceptance is associated with additional requirements. At the Department of Pharmaceutical Sciences, graduates are eligible for a doctorate in pharmaceutical sciences or toxicology without additional requirements. Transfaculty doctorates are possible in history of the sciences, medical-biological research and pharmacology. The doctoral studies last three to four years. After the dissertation has been accepted, an oral examination covering the postgraduate studies in the doctoral subject must be taken.

European Registered Toxicologist: Specified courses within the "Special Topics in Toxicology" module provide the theoretical basis for subsequent registration as a professional toxicologist. In addition to the theoretical basis, five years of professional experience are required to apply for inclusion in the professional register (see https://swisstox.ch)

Career opportunities
With the qualification of the MSc Drug Sciences, and potentially a subsequent doctorate, graduates will have acquired an excellent foundation for a position in industrial or academic research, product development or in a regulatory agency.

Admission
To be admitted directly, you must have completed a Bachelor's degree in Pharmaceutical Sciences from a Swiss University. Holders of a Bachelor's degree from a Swiss University can receive conditional acceptance, provided that at least 120 credit points have been documented in one or more of the following fields of study: Biology, Biochemistry, Chemistry, Human Medicine, Veterinary Medicine, Pharmaceutical Sciences and provided that not more than 60 credit points of core competencies out of the Bachelor of Sciences of Pharmaceutical Sciences are missing. Holders of a Bachelor's degree in the aforementioned fields of study from a recognized foreign university may apply and the Teaching Commission will examine the equivalence with the corresponding qualifications/prerequisites.

Binding information under: https://unibas.ch/admission.

Application
Application under https://unibas.ch/application; the application fee amounts to CHF 100.-. Application deadline for the fall semester is April 30.

Enrollment
The letter of admission also informs students about the enrollment procedure. In general, students with a Swiss educational background do not have to be present in person for enrollment.

Tuition fees
Tuition fees per semester (also for examination semesters): CHF 850.-
Individual costs of living etc. are not included. Costs for excursions and visits to other labs will have to be covered by the students.

Scholarships and student loans: Applications should be sent to the responsible office of the canton in which the parents are eligible to pay their taxes.

Mobility
Semesters abroad are possible and supported by scholarship programs. Mobility programs facilitate stays at other Swiss universities or foreign universities. Further Information: Student Exchange, Petersplatz 1, 4001 Basel, T +41 61 207 30 28, mobility@unibas.ch, https://unibas.ch/mobility

Further information
For **guidelines and regulations** of the Master's Degree in Drug Sciences, see https://pharma.unibas.ch/en/education/msc-drug-sciences/

Information about the University of Basel
- The course directory («Vorlesungsverzeichnis») can be found at: https://unibas.ch/vv
- Basler Studienführer: https://studienberatung.unibas.ch
- Homepage: https://unibas.ch/en

Student advice
Questions regarding the study of Drug Sciences can be discussed with the Study Coordination Office of the Department of Pharmaceutical Sciences (at Pharmacenter, studienkoordination-pharma@unibas.ch, T +41 61 207 15 53).

Adresses

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