Chemistry

Degree conferred
Bachelor of Science in Chemistry

Languages of study
Study in two languages, in French and German

Commencement of studies
Commencement of studies only in the Autumn Semester (September)

Access to further studies
Master

In this study programme, students deal with the questions of why and how atoms combine to form molecules: they gain basic knowledge of the nature and diversity of chemical bonds and elements and how these are related to the external properties of the materials. But chemistry is not only knowledge; it is also a craft: the future chemists therefore spend much time in laboratories and learn to determine the structure of a material (analysis), synthesise a new material (preparative chemistry), measure the properties of materials with the help of instruments (physical chemistry) or even understand and predict properties with the help of theoretical methods (computational chemistry). Chemistry does not stand alone, it uses mathematical tools and has synergies with biology and physics that are becoming increasingly close. For this reason, during the first academic year, the majority of students, however, decide to pursue a Master's programme. In either case the most important employers are the pharmaceutical, chemical or food industries, companies that build, sell and maintain chemical, analytical or scientific instruments, and regulatory and administrative authorities. Some graduates pursue «non-classical» careers, for example, for an IT company. One highly competitive and interesting possibility would be to gain a Master's degree and a doctorate and aspire to an academic career in research and education.

Academic and professional openings
The Bachelor's programme qualifies you for a number of professions. The majority of students, however, decide to pursue a Master's programme. In either case the most important employers are the pharmaceutical, chemical or food industries, companies that build, sell and maintain chemical, analytical or scientific instruments, and regulatory and administrative authorities. Some graduates pursue «non-classical» careers, for example, for an IT company. One highly competitive and interesting possibility would be to gain a Master's degree and a doctorate and aspire to an academic career in research and education.

Studies organisation
Structure of studies
150 ECTS credits + 30 ECTS credits in a minor study programme freely chosen, 6 semesters

Curriculum
http://studies.unifr.ch/go/mjkY5 (French)
http://studies.unifr.ch/go/0fTFn (German)

Admission
The following Swiss school-leaving certificates grant admission to Bachelor programmes at the University of Fribourg:

- Swiss academic Maturity Certificate
- Swiss vocational or specialised Baccalaureate in conjunction with the supplementary exam certificate from the Swiss Maturity Commission
- Bachelor Degree from a Swiss university, from an accredited Swiss university of applied sciences (HES/FH) or from a Swiss university of teacher education (HEP/PH)

http://studies.unifr.ch/enbachelor/sci/chemistry 1/2 20.11.2019 05:55
A complete list of all further recognized Swiss school-leaving certificates is to be found on the webpages of swissuniversities (in French and German only): http://studies.unifr.ch/go/en-admission-swiss-certificates

Foreign upper secondary school-leaving certificates are recognised only if they correspond substantially to the Swiss Maturity Certificate. They must qualify as general education. Foreign school-leaving certificates are considered to be general education if the last three years of schooling include at least six general education subjects, independent from each other, in accordance with the following list:

1. First language (native language)
2. Second language
3. Mathematics
4. Natural sciences (biology, chemistry or physics)
5. Humanities and social sciences (geography, history or economics/law)
6. Elective (an additional language or an additional subject from category 4 or 5)

The general admission requirements to the Bachelor programmes at the University of Fribourg for holders of foreign school-leaving certificates as well as the admission requirements for individual countries are to be found on the webpages of swissuniversities: http://studies.unifr.ch/go/en-admission-countrylist

In addition, foreign candidates must present proof of sufficient language skills in French or German.

The assessment of foreign school-leaving certificates is based on the «CRUS Recommendations for the Assessment of Foreign Upper Secondary School-Leaving Certificates, 7 September 2007» (http://studies.unifr.ch/go/crus07en). The admission requirements are valid for the respective academic year. The Rectorat of the University of Fribourg reserves the right to change these requirements at any time.

Alternatives

Also offered as a minor study programme (60/30 ECTS credits).

Contact

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