The major study programme in Mathematics programme is supplemented by one or two minors that students can choose freely. In addition to physics, computer science and economics, which are traditionally closely linked to mathematics, other fields of study in Science or the Arts and Humanities can also be chosen.

**Fribourg profile**
The programme of the first two academic years is largely determined by mandatory courses. The main focus consists of a multi-semester lecture series on analysis, algebra and geometry. During the second academic year, introductory courses on applied mathematics, especially numerical mathematics and probability theory, and statistics are added. The courses consist of lectures that serve to quickly and efficiently impart knowledge in a concentrated form and corresponding exercises in which what has been learned is applied independently deepening the knowledge through practical use.
The content of the programme during the third academic year is not so defined, although there are rules that ensure that the training is not too one-sided. The courses require thorough command of the methods and content learned during the first two years of study. Among a wide range of courses, students choose further lectures that correspond to their interests and preferences. Thanks to close cooperation with the Universities of Bern and Neuchâtel, these courses are also open to students in Fribourg.
The major study programme in Mathematics is supplemented by minors that students can choose freely from other university fields of study.

**Profile of the study programme**
The origins of mathematics go back to prehistoric times. The science developed from the practical requirements of measuring and counting in trade and industry, from the pursuit of astronomy and geodesy and from the appeal of the principles and laws that were thereby discovered.
The scientific and technical revolutions that have occurred since the beginning of modern times are characterised by the discovery and development of increasing numbers of new mathematical concepts, models and methods. Currently, mathematics has approximately 100 different areas of research, which are interrelated in multifaceted ways with other sciences. Every year more than 100,000 new contributions to research are published in the numerous professional mathematical magazines.

This graduate school programme is the first step in the training of professional mathematicians. The training is usually continued and completed with a subsequent Master of Science programme in mathematics. The methods, ways of thinking and content that all mathematicians should be proficient in, in accordance with international standards and independent of subsequent specialisation, are imparted in an intense and demanding programme.
The major study programme in Mathematics programme is

**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
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)

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-swisscertificates](http://studies.unifr.ch/go/en-admission-swisscertificates)

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-country-list](http://studies.unifr.ch/go/en-admission-country-list)

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](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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