Informatics studies at the University of Fribourg provide in-depth theoretical knowledge while placing a strong emphasis in relation to practice.

Our approach to informatics is oriented towards problem analysis and solution; teaching takes place in a friendly atmosphere. Students carry out several one-semester projects in which they learn to apply their acquired knowledge successfully in a variety of contexts. Examples of current projects are programming of robots and controlling processes.

The major study programme in informatics is complemented by minors which can be freely chosen. It is also possible to choose programmes from other university fields of study.

This bachelor’s degree can give access to the Swiss Joint Master in Computer Science offered by the universities of Bern, Neuchâtel and Fribourg. Our approach to informatics is oriented towards problem analysis and solution; teaching takes place in a friendly atmosphere. Students carry out several one-semester projects in which they learn to apply their acquired knowledge successfully in a variety of contexts. Examples of current projects are programming of robots and controlling processes based on the example of the safe control of a model railway system. This solution-oriented approach to informatics, as it is taught in Fribourg, has the advantage of being an excellent preparation for practical application in later working life.

It also acts as a preparation for the continued study of computer science in the scientifically oriented master programme. The fact that our computer science courses have proved their worth in everyday practice has also been confirmed in independent surveys (swissUp Ranking study) conducted among computer science graduates from all Swiss universities and Swiss Federal Institutes of Technology. According to the informatics graduates who were questioned, Fribourg has an outstanding record from the point of view of practical experience.

Learning outcomes and career prospects
The Fribourg University Bachelor of Science degree in Informatics lays an excellent foundation for later employment. It enables direct entry into working life, or the possibility of earning further qualifications by pursuing the master’s degree in computer science. The master’s degree offers enhanced possibilities of obtaining even more attractive positions in companies or universities. This is why a high percentage of our Bachelor of Science graduates continue their studies in the Swiss Joint Master in Computer Science offered by the universities of Bern, Neuchâtel and Fribourg. This highly attractive computer science master programme in Switzerland is made possible by the cooperation of these three universities. Students can gain admission to other universities while remaining matriculated in Fribourg. There is a rising demand for computer scientists with optimum qualifications – and a growing scarcity of specialists in the field. As a computer scientist you help shape the future – in industry, commerce, administration, the service sector and research. All in all: you will receive the best basis for a successful start to your professional career.

Studies organisation
Structure of studies
120 ECTS credits + 60 ECTS credits in one or two minor study programmes freely chosen, 6 semesters

Curriculum
http://studies.unifr.ch/go/mjkY5 (French)
http://studies.unifr.ch/go/01TFn (German)

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

- Swiss academic Maturity Certificate
- Federal vocational or specialised Baccalaureate + supplementary examination of the Swiss Maturity Commission (passerelle)
- 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/FH)

http://studies.unifr.ch/enbachelor/digitinf/informatics
A complete list of all further recognised Swiss school-leaving certificates is to be found on the webpages of swissuniversities (in French and German only): https://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, among other things, 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
2. Second language
3. Mathematics
4. Natural sciences (biology or chemistry or physics)
5. Humanities and social sciences (geography or history or economics/law)
6. Elective (computer sciences or philosophy or 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. All guidelines are available at (only in French and German): https://studies.unifr.ch/go/adm-guidelines

The assessment of foreign school-leaving certificates is based on the «Recommendations for the Assessment of Foreign Upper Secondary School-Leaving Certificates» adopted by the Chamber of universities of swissuniversities on 11.11.2021 (https://studies.unifr.ch/go/swissuniversities21fr; https://studies.unifr.ch/go/swissuniversities21de). 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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