Physics

Degree conferred
Bachelor of Science in Physics

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

6 good reasons to study at the University of Fribourg
The University of Fribourg’s Department of Physics offers students an excellent environment in which to study physics at the Bachelor’s level, notably thanks to:

- Its international environment;
- Its human dimensions;
- Its excellent student mentoring;
- Its bilingualism; teaching is in French and German. Students may always express themselves in their own language;
- Great freedom in the choice of foundation course (chemistry, IT or biology) and minor study programmes (mathematics, informatics, chemistry, biology, etc.) to complement the principal study programme;
- Active participation of third year students and higher in top-level research groups: atomic physics, electrons in solids, soft matter and photonics, interdisciplinary theoretical physics, collective quantum phenomena or nanosciences.

Learning outcomes and career openings

Acquired skills: by the time you obtain your Bachelor's degree, you will have consolidated your basic scientific know-how and acquired general subject knowledge and a broader vision of physics. You will have developed your ability to synthesise information and a critical way of thinking, which will enable you to proceed to more advanced studies or to specialise in your chosen field;

Bilingualism: thanks to the bilingualism which is part and parcel of the course, you will enrich your specialist vocabulary in both languages and learn to dialogue in an academic context with specialists both in French and German.

Physicists' skills are highly sought-after in the field of high-tech. A Bachelor's degree in Physics constitutes a sound basic qualification and opens the way to a variety of career orientations. For example, you can put your knowledge to good use in the field of patents or consulting, or undertake further studies leading to a Master’s degree. With a Master in Physics, you will have access to various professional activities in research, teaching, industry, economics or administration.

Organisation des études
Structure of studies
150 ECTS credits + 30 ECTS credits in a minor study programme freely chosen, 6 semesters

Curriculum
http://www.unifr.ch/science/plans/plans_e.php

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

http://studies.unifr.ch/enbachelor/sci/physics

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Swiss academic Maturity Certificate
Swiss professional Maturity Certificate 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):
https://www.swissuniversities.ch/en/services/admission-to-
universities/schweizerische-ausweise/

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:
https://www.swissuniversities.ch/en/services/admission-to-
universities/countries/
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).

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