Experimental Biomedical Research

Degree conferred
Specialized Master of Science in Experimental Biomedical Research

Options
Three options available:
- Neuroscience
- Infection, Inflammation and Cancer
- Cardiovascular and Metabolic Health

Languages of study
Study in English

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

Access to further studies
Ph.D.

The master programme in Experimental Biomedical Research provides opportunities for a broad learning experience in the area of biomedicine. It emphasises research training and acquisition of practical skills that will enhance students’ capacity to continue learning in their future employment and/or develop a research career in their chosen option. Three options are available: «Neuroscience», «Infection, Inflammation and Cancer», «Cardiovascular and Metabolic Health».

What will I learn?
Students will develop an advanced comprehension of the structure and function of biological systems, together with an understanding of the mechanisms underlying normal function and dysfunction at molecular, cellular and systems levels. They will develop proficiency in scientific thinking, formulation of scientific hypotheses, research project design as well as data analysis and interpretation. They will also acquire and apply research skills necessary for scientific investigations and develop specific knowledge in this field.

Who can apply?
The programme is addressed to students with an undergraduate degree in Life Sciences or a related subject area.

What are we looking for?
When assessing your application we would like to know:
- Why you want to study Experimental Biomedical Research?
- Why you want to study at the University of Fribourg?
- What particularly attracts you to this programme compared to other ones?
- How your personal and professional background meets the demands of this rigorous programme?
- What are your expectations from this programme?
What your career plans are following the award of your degree?

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme delivers.

**Academic and professional openings**

Graduates will find employment opportunities in the biotechnology, pharmaceutical or medical device industry as well as in the health care sector. The master's degree also provides a solid foundation for doctoral studies, where students can capitalise upon the acquired knowledge and skills. A doctorate and subsequent postdoctoral experience then provide potential access to academic and management positions within Switzerland or abroad.

**Studies organisation**

**Structure of studies**

90 ECTS credits, 3 semesters

**Curriculum**

- [http://studies.unifr.ch/go/xZPI](http://studies.unifr.ch/go/xZPI) (French)
- [http://studies.unifr.ch/go/z3FE1](http://studies.unifr.ch/go/z3FE1) (German)

**Comments**

The number of places is limited to the formation capacities of the Medicine Section.

**Admission**

The admission to the master follows the conditions of admission of the University of Fribourg. Holders of a bachelor's degree in Life Sciences awarded from a Swiss University can be admitted to the master's degree course. The same applies to holders of a bachelor's degree awarded by a foreign university, provided that the bachelor's degree is recognised and considered equivalent by the University of Fribourg. For details, please, refer to the study plan.

**Contact**

Faculty of Science and Medicine  
Medicine Section  
Prof. Gregor Rainer  
mscebr@unifr.ch  
[http://studies.unifr.ch/go/fr-medicine](http://studies.unifr.ch/go/fr-medicine) (French)  
[http://studies.unifr.ch/go/de-medicine](http://studies.unifr.ch/go/de-medicine) (German)