Master of Science in Computer Science of the Universities of Bern, Neuchâtel and Fribourg

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mcs.unibnf.ch
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1. GENERAL ASPECTS
The **Swiss Joint Master of Science in Computer Science** is a study program offered by the universities of Bern, Neuchâtel, and Fribourg.

However, this multi-site infrastructure can be considered as one campus:

- travel between the sites by public transportation is quick, convenient and comfortable, and the travel costs are reimbursed
- common legal documents
- common systems
Student Life

- **Attractive accommodation**
  - Bern, Neuchâtel and Fribourg offer a larger number and variety of affordable accommodation than other major cities in Switzerland

- **Linguistic and cultural diversity**
  - the 3 universities are located in an area of Switzerland that is at the meeting point of German and French cultures

- **A wide variety of cultural attractions**
  - the universities of Bern, Neuchâtel, and Fribourg are only a stone’s throw away from the lakes of Geneva and Neuchâtel, a number of UNESCO world heritage sites, and the magnificent Swiss Alps
2. JOINT MASTER PROGRAM
Structure of the Master Studies

Courses (60 ECTS)

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Master (90 ECTS)

Master Thesis (30 ECTS)
An individual research project with a thesis report
Structure of the Master Studies

Courses (60 ECTS)

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Master Thesis (30 ECTS)
An individual research project with a thesis report

Additional Minor (30 ECTS)
An optional module may be chosen from approved minor programs in other disciplines at Swiss Universities
A Broad and Structured Offer

- All courses are credited with 5 ECTS

- A student chooses 12 courses/seminars
  - a minimum of 8 courses out of around 40 courses
  - a minimum of 2 seminars out of seminars offered by 18 research groups
  - the full course/seminar list can be found on our website

- All courses/seminars are grouped into 7 tracks according to fields of studies, allowing high quality focus
Available Tracks

- T0 - General (complementary offer)
- T1 - Distributed Software Systems
- T2 - Security
- T3 - Visual Computing
- T4 - Theory and Logic
- T5 - Information Systems and Decision Support
- T6 - Data Science
Diversification and Focus

- There are no mandatory courses

- Diversification
  - at least 3 tracks have to be touched (earning at least 5 ECTS per track)

- Optional specialization
  - at least 25 ECTS in one track (T1 - T6) + master thesis
Study Duration

- The program normally takes 3 semesters of full-time studies to complete (30 ECTS each semester)

- In case of part-time studies, the duration of the program is, upon request, extended accordingly
Language of Study

- Most courses are taught in English, occasionally in French or in German.

- Students who only know English can follow the program without problems.

- Socializing also takes place in English, as most of fellow students speak English (e.g., 10’000 university students out of 40’000 habitants in Fribourg).
Study Support

- To get in touch with professors and lecturers is easy and uncomplicated

- There is a good staff-student ratio in the master program

- A study tracking is performed two times during the academic year
  - the goal is to observe the progress that students made during the last semester
  - students with problems in their studies are advised how to better plan their further studies
3. ADMISSION AND REGISTRATION
Admission Requirements

- The master program is open to all students holding
  - a Bachelor of Science in Computer Science from a Swiss university
  - an equivalent title from a foreign university*
  - a Bachelor’s degree in Computer Science from a University of Applied Sciences (with, in principle, a grade average of at least 5.0 in their Bachelor studies)*
  - a different type of university degree (in particular holders of a bachelor degree with a minor in Computer Science)*

* these applications are considered on a case-by-case basis, and the branch committee may require additional credits from courses at the Bachelor’s level, with a maximum of 60 credits
How to apply

▶ From outside (not matriculated at a BeNeFri university)
  ▶ submit your application request to the registration office until April 30th for the autumn semester or until November 30th for the spring semester

▶ From a BeNeFri university (registered in a program other than Computer Science)
  ▶ submit your application request to the Program Coordinator

▶ From Bachelor in Computer Science of a BeNeFri university
  ▶ nothing to do (you will be registered automatically for the master program)
4. FURTHER INFORMATION AND CONTACT
Further Information

- Further information can be found on the website (https://mcs.unibnf.ch)
  - program
  - admission
  - organization
  - lectures
  - research groups
  - student life
  - downloads
Contact

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Questions?

We would like to thank you for your interest in our master program in Computer Science