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

Information Event in Bern
Prof. David Bommes & Prof. Christian Cachin
September 13th, 2019

mcs.unibnf.ch
Contents

1. Joint Master program
2. Legal documents
3. Organization and student’s ToDo list
4. Information for hosted JMCS students
5. Further information and contact
1. JOINT MASTER PROGRAM
**Structure of the Master Studies**

### Courses (60 ECTS)

<table>
<thead>
<tr>
<th></th>
<th>T₀</th>
<th>T₁</th>
<th>T₂</th>
<th>T₃</th>
<th>T₄</th>
<th>T₅</th>
<th>T₆</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General</td>
<td>Distributed Systems</td>
<td>Advanced Software Engineering</td>
<td>Advanced Information Processing</td>
<td>Logic</td>
<td>Information Systems and Decision Support</td>
<td>Data Science</td>
</tr>
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</table>

### 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

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 15 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

All courses are credited with 5 ECTS
Available Tracks

- T0 - General (complementary offer)
- T1 - Distributed Systems
- T2 - Advanced Software Engineering
- T3 - Advanced Information Processing
- T4 - 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 maximal study duration is limited to 6 semesters

- An extension of the maximal study duration is possible, e.g. part-time studies, upon request
Evaluation / Exam

- Exam principles
  - the exams take place at the end of the semester
  - only failed exams can be repeated at a fixed repetition date

- A course is only credited if a mark $\geq 4.0$ has been obtained

- Insufficient marks ($< 4.0$) cannot be compensated with higher marks of other courses
Study Tracking

- To guarantee a certain quality standard in the master program, a so-called study tracking is performed two times during the academic year.

- The goal of such a study tracking is to observe the progress that students made during the last semester.

- Students who have problems in their studies are advised how to better plan their further studies.
2. LEGAL DOCUMENTS
Conventions

- Convention cadre / Rahmenvereinbarung
  - agreement about the collaboration between the three BeNeFri universities

- Convention de branche / Fachkonvention
  - agreement about the collaboration between the three BeNeFri Computer Science institutes
Regulation and Study Plan

- **Règlement / Reglement**
  - regulation that specifies the principles of the master studies in Computer Science and the corresponding evaluations

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<tbody>
<tr>
<td>Règlement pour l’obtention du Master en Informatique</td>
<td>Reglement für die Erlangung des Masters in Informatik</td>
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</table>

- **Plan d’études / Studienplan**
  - contains the structure and the rules of the master studies

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Supplement to the Study Plan

- Annexe du plan d’études / Anhang zum Studienplan
  - contains the list of teaching units with the corresponding ECTS credits
  - this list is adapted every year

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3. ORGANIZATION AND STUDENT’S TODO LIST
Administration Systems

- **Website**
  - information about the program (http://mcs.unibnf.ch)

- **Learning management system (ILIAS)**
  - for all courses and seminars, there is a course page in ILIAS (https://mcs.unibnf.ch/e-learning, click on “Login”)

- **Student management system (Academia)**
  - students are administrated with Academia (https://mcs.unibnf.ch/admin)
Student’s ToDo List for every Semester (1/3)

- Registration for teaching units (courses and seminars)
  - at the beginning of each semester, students must register for the teaching units that they want to take during that semester
  - students who have registered for a teaching unit but later change their mind about attending it, are requested to cancel their registration
  - (de-)registration in Academia through SWITCHaai with your account and password of your affiliated university
    https://mcs.unibnf.ch/admin
Student’s ToDo List for every Semester (2/3)

- Registration for exams
  - students have to register for the exam before the registration deadline
  - students who do not register to take the exam at the end of the teaching unit are not allowed for the repetition exam
  - registration for an exam can be cancelled or withdrawn (this procedure depends on when it takes place)
  - (de-)registration in Academia through SWITCHaai with your account and password of your affiliated university
  
  https://mcs.unibnf.ch/admin
Student’s ToDo List for every Semester (3/3)

- Reimbursement of travel expenses
  - at the beginning of each semester: register for the BeNeFri network if you follow a teaching unit at a partner university until
    - autumn semester: September 30\textsuperscript{th}
    - spring semester: February 28\textsuperscript{th}
  - during the semester: complete the travel regulation (BeNeFri forms) available at
    (the lecturer has to sign for all of his/her courses)
  - at the end of the semester: sign the form and send it, together with the necessary attachments (train tickets, …), to the responsible service of the home university
    - autumn semester: January 31\textsuperscript{st}
    - spring semester: June 30\textsuperscript{th}
Before starting your master thesis, you should in principle have achieved all your teaching units (if applicable, all additional academic requirements must be successfully completed).

Details can be found at https://mcs.unibnf.ch/organization/master-thesis/
Important Dates and Deadlines

- Registration for teaching units ([https://mcs.unibnf.ch/admin](https://mcs.unibnf.ch/admin))
  - autumn semester 2019: **October 11th 2019**
  - spring semester 2020: **March 13th 2020**

- Registration for exams ([https://mcs.unibnf.ch/admin](https://mcs.unibnf.ch/admin))
  - autumn semester 2019: **January 3rd 2020**
  - spring semester 2020: **May 8th 2020**
  - repetition 2020: **July 31st 2020**

- Reimbursement of travel expenses ([http://www.unifr.ch/benefri](http://www.unifr.ch/benefri))
  - autumn semester: **January 31st**
  - spring semester: **June 30th**
Complement to the Master Program

Teaching units of the complement are submitted to the bachelor rules and regulations of the Faculty of Science of the home university (dates, condition to pass, …)

- Be: https://www.unibe.ch/e152701/e154048/e191232/e205337/e707890/phil_nat_rsl_final_ger.pdf
- Ne: http://rsn.ne.ch/DATA/program/books/rsne/htm/416320.htm
- Fr: https://www3.unifr.ch/apps/legal/fr/document/276449

Student management systems used in the complement

- Be: KSL (http://www.ksl.unibe.ch)
- Ne: Academia (http://www.unine.ch/is-academia)
- Fr: GeFri/MyUniFR (http://my.unifr.ch)
4. INFORMATION FOR HOSTED JMCS STUDENTS
Hosted JMCS Students

- Hosted JMCS students are all students other than JMCS students (students who are matriculated in the Joint Master program in Computer Science) who follow a teaching unit of the Joint Master in Computer Science, e.g.:
  - bachelor students in Computer Science (major, minor, optional studies)
  - master students in Mathematics, Information Management, …

- They have exactly to do the same tasks as JMCS students (slides 17, 18, 19). Additionally, they have to:
  - complete a request form for Academia access ([https://mcs.unibnf.ch/organization/request-for-academia-access/](https://mcs.unibnf.ch/organization/request-for-academia-access/)) at the beginning of every semester until
    - autumn semester: September 30th
    - spring semester: February 28th
5. FURTHER INFORMATION AND CONTACT
Further Information

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

There is a section for frequently asked questions (FAQ) on the website: https://mcs.unibnf.ch/faq/

There are questions like
- Is there a possibility to study part-time?
- Can I interrupt my studies for a given time period (e.g., one semester or one year)?
- ...
Contact (Secretariat)

- **Program Coordinator**
  Dr. Andreas Humm
  Boulevard de Pérolles 90
  CH-1700 Fribourg
  Office B410
  andreas.humm@unifr.ch

- **Bern**
  Bettina Choffat
  Neubrückstrasse 10
  CH-3012 Bern
  Office 112
  choffat@inf.unibe.ch

- **Neuchâtel**
  Émilie Auclair
  Rue Emile-Argand 11
  CH-2000 Neuchâtel
  Office B113
  secretariat.iiun@unine.ch

- **Fribourg**
  Stéphanie Fasel
  Boulevard de Pérolles 90
  CH-1700 Fribourg
  Office B412
  stephanie.fasel@unifr.ch
Contact (Student Counselors)

- **Bern**
  - Bettina Choffat
  - Neubrückstrasse 10
  - CH-3012 Bern
  - Office 112
  - choffat@inf.unibe.ch

- **Neuchâtel**
  - Jacques Savoy
  - Rue Emile-Argand 11
  - CH-2000 Neuchâtel
  - Office B115
  - jacques.savoy@unine.ch

- **Fribourg**
  - Prof. Ulrich Ultes-Nitsche
  - Boulevard de Pérolles 90
  - CH-1700 Fribourg
  - Office A416
  - ulrich.ultes-nitsche@unifr.ch
Branch Committee

Members

- Prof. David Bommes, University of Bern
- Prof. Torsten Braun, University of Bern
- Prof. Peter Kropf, University of Neuchâtel (president)
- Prof. Bernard Ries, University of Fribourg
- Prof. Jacques Savoy, University of Neuchâtel
- Prof. Ulrich Ultes-Nitsche, University of Fribourg
Networking

- **During your studies: Fachschaft**
  - Fr: Fachschaft of Informatics (http://student.unifr.ch/informatics)
    They always search new members!

- **After your studies: Alumni**
  - Joint Alumni Association in Computer Science (JAACS) (https://www.jointalumni.ch)
Questions?

We hope your studies will be interesting and successful!