Business Informatics

Degree conferred
Master of Science in Business Informatics

Options
Option of an award bearing the distinction:
– «Bilingual Curriculum, French/English»
– «Bilingual Curriculum, German/English»

Languages of study
Mostly in English, but also in French and German

Commencement of studies
Commencement of studies in the Autumn Semester (September) or in the Spring Semester (February)

Access to further studies
This master programme qualifies students for the doctoral programme **Economic and Social Sciences**.

The master programme comprises a first group of classes in business informatics and data analytics and decision support, a second group in computer science, and a third group of optional classes in management. Students can create their personalised curriculum. In these groups, they have full access to the *Swiss Joint Master in Computer Science*, a programme jointly offered by the Universities of Fribourg, Bern and Neuchâtel. Over 60 courses are available, most of which are taught in English. Topics covered in the master include for example methods and current technologies for the digitalisation of enterprises such as blockchains, augmented and virtual reality or fuzzy logic, advanced concepts for developing information systems, the design and implementation of domain-specific conceptual modeling methods, methods of data analytics and big data, supply chain management or revenue management. The compulsory internship with a company or other institution strengthens this direction. Finally, in the master thesis students investigate a topic in the context of current research projects or in cooperation with a company.

Profile of the study programme

The *Master of Science in Business Informatics* gives candidates with a bachelor's degree in Information Systems or related domains the opportunity to advance their knowledge and skills in the application of information and communication technologies in the economy and society.

The master programme comprises a first group of classes in business informatics and data analytics and decision support, a second group in computer science, and a third group of optional classes in management. Students can create their personalised course of study choosing classes according to a required number of credits in the first two groups. In these groups, they have full access to the *Swiss Joint Master in Computer Science* (SJMCS), a programme jointly offered by the Universities of Fribourg, Bern and Neuchâtel, and benefit from the multiple advantages of the SJMCS (for further information, see also the study programme «Computer Science»). Over 60 courses are offered, some taught in German or French, and most of them taught in English, allowing also students who only know English to complete the programme without problems.

Topics covered in the master include for example methods and current technologies for the digitalisation of enterprises such as blockchains, augmented and virtual reality or fuzzy logic, advanced concepts for developing information systems, the design and implementation of domain-specific conceptual modeling methods, methods of data analytics and big data, supply chain management or revenue management. This internship at a company or other institution provides the student the opportunity to apply the acquired knowledge and gain valuable practical experience. Finally, in the master thesis students investigate a topic in the context of current research projects or in cooperation with a company.

Learning outcomes and career openings
Offering a broad range of courses, coupled with a scientifically sound but practice-oriented approach, the *Master of Science in Business Informatics* is particularly suited to preparing students for the job market, where interdisciplinary experience and practical skills are highly valued in qualified graduates. A master's degree in Business Informatics enables students to fill advanced positions in diverse economic sectors, including financial industries, high-tech companies, journalism and entertainment, public administration, teaching and continuing education, research, automation, gaming and sports, communication technology, engineering and knowledge management. It also gives them the opportunity to continue their studies towards a Ph.D. degree, offering further interesting careers in industry and academia. Altogether, it opens excellent professional perspectives, as applied computer scientists are worldwide in high demand.

Studies organisation

Structure of studies

90 ECTS credits, 3 semesters

Curriculum

http://studies.unifr.ch/go/snCHT *(French)*
http://studies.unifr.ch/go/CEsEp *(German)*

Admission

Master's degree programmes are built on the knowledge and abilities that were acquired when obtaining a bachelor's degree.

Holders of a bachelor's degree awarded by a Swiss university are admitted to a master's degree programme without any preconditions if they have earned 60 or 90 ECTS credits –

depending on the chosen master's degree programme – within the corresponding discipline. However, additional requirements can be required. 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.

Holders of a bachelor's degree awarded by a Swiss or a foreign university, provided that the bachelor's degree is recognised and considered equivalent by the University of Fribourg, who do not fulfil this condition can be admitted to a master's degree programme with preconditions (which must be successfully completed before starting the master's degree programme) and/or additional requirements (which can be completed during the master's degree programme). The preconditions and/or additional requirements may not exceed 60 ECTS credits in total. The same applies to holders of a bachelor's degree awarded by a Swiss university of applied sciences, according to existing agreements.

The respective conditions of admission for each master's degree programme are reserved.

Alternatives

Also offered as a minor study programme (30 ECTS credits).

Contact

Faculty of Management, Economics and Social Sciences
Dean's Office
decanat-ses@unifr.ch
http://studies.unifr.ch/go/en-sesm