DURATION OF STUDIES

2 years (4 semesters)

LANGUAGES OF INSTRUCTION

French, English

CONDITIONS OF REGISTRATION

www.unige.ch/conditions/MA

ADMISSION CONDITIONS

A Bachelor in Computer Science, in Mathematics, Computer Science and Digital Sciences or an equivalent degree, as determined by a review of the candidate's application. Prerequisites may be required.

Master's Programme

THE MASTER IN COMPUTER SCIENCE

provides comprehensive, multidisciplinary training in the information and communication sciences. It includes courses in various areas, such as science, economics and social sciences, on subjects like data-mining, information research, man-machine interfaces, cryptography and security, distributed computing, automatic language processing and knowledge modelling.

The programme benefits from the excellent synergies that exist within the Computer Science Centre (CUI). Students may also enhance their training with a three-month work placement in a company. This Master's programme provides students with solid skills in computer science as well as special expertise within their chosen area of specialisation.

STUDY PROGRAMME

4 semesters (max. 8 semesters) | 120 ECTS credits

Required courses

42 credits

- Metaheuristics for optimisation
- Software modelling and verification
- Systems modelling and design
- Semantic web technology
- Seminar of introduction to research
- Linguistic and empirical approaches to language processing
- Automatic natural language processing

Electives

42 credits

- Advanced tools
- Modelling and simulation of natural phenomena
- Security of information systems
- Techniques in man-machine interaction
- Seminars on emerging industrial and scientific topics
- Service innovation lab
- Services - from concept to market
- Knowledge organisation systems
- Project on new information and communication technologies (NTIC)
- Topics in natural language processing, etc.

Dissertation

36 credits

ACADEMIC CALENDAR

www.unige.ch/calendar

LEVEL OF FRENCH REQUIRED BY UNIGE

No French proficiency test required for non-Francophones.

MOBILITY

Students may earn up to 30 credits while on exchange. They may also conduct research outside the university under the supervision of a faculty member, or do a work placement at a leading external laboratory in order to complete their Master's degree.

www.unige.ch/exchange

PROFESSIONAL PROSPECTS

A Master in Computer Science leads to a number of opportunities both in Switzerland and abroad, in areas such as:

- Analysis and management of large volumes of data (Big Data)
- Network management
- Project management
- Teaching
- IT firms
- Banks
- Service industry
- Administration and public services.

UNIVERSITY TAXES

500 CHF / semester

REGISTRATION

Deadline for candidates that hold a foreign bachelor's degree: 28 February 2024
(30 April 2024 for candidates that hold a Swiss bachelor's degree at the start of the next academic year AND, according to their nationality, are not subject to a visa for entry into Switzerland for more than 90 days, according to Swiss government requirements and regardless of their current place of residence, or for candidates holding a Swiss residence permit that is valid beyond 30 April.)

www.unige.ch/enrolment

CONTACTS FOR STUDIES

FACULTY OF SCIENCE
Sciences II
30 quai Ernest-Ansermet
1211 Genève 4

STUDENT AFFAIRS
T. +41 (0)22 379 66 61/62/63
secretariat-etudiants-sciences@unige.ch

ACADEMIC ADVISOR
Xavier Chillier
T.+41 (0)22 379 67 15
conseiller-etudes-sciences@unige.ch

IT DEPARTMENT
Stéphane Marchand-Maillet
T. +41 (0)22 379 01 54
conseil-etu-info@unige.ch

www.unige.ch/sciences