



what shape
for the future?

master of science (MSc) in information systems

GENERAL OUTLINE

Objectives

The Master of Science in Information Systems allows you to acquire advanced skills in New Information and Communications Technologies (NICT) for use within organisations. Subjects are studied with a balanced multidisciplinary approach and cover both information technology and management techniques. The Master's degree thus trains high-level specialists with the skills needed to design, manage, evaluate and implement IT services and applications.

This course also allows to undertake doctoral studies.

Career prospects

University studies develop a great many transverse skills such as: communication, critical, analytical and summarising faculties, abilities in research, and so on.

This panoply of skills, combined with specialist knowledge acquired in the course of studies, is excellent preparation for a wide range of employment opportunities such as:

- IT Project Leaders
- Information System Designers
- Senior Management Technology Adviser
- Chief Technology Officer - CTO
- Chief Information Officer - CIO
- IS Auditor
- Integrator
- Business Analyst
- NTIC Consultant
- Company Architect

GENERAL INFORMATION

Organiser

HEC Lausanne: www.unil.ch/hec
Information Systems Department (DESI):
www.hec.unil.ch/desi

Degree awarded

Master of Science (MSc) in Information Systems

ECTS credits

90

Duration

3 semesters

Teaching language

French and English. Recommended level: C1.

Study advisor

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More information

www.unil.ch/hec/masters



Version: March 2019
Subject to changes
Only the official texts should be considered
binding.

EDUCATIONAL CONTENT

Description

During the first two semesters, various courses are offered in two key fields of the programme: Management and Information System Engineering. They are completed by fundamental courses, and will be accompanied by complementary activities that vary according to the different courses (exercises, practical work, projects, lectures, workshops, etc).

The third semester is dedicated essentially to the preparation and writing of a personal research or internship dissertation.

Examinations

Examinations on all subjects taught are held at the end of each semester.

SYLLABUS*

1st–2nd semesters (60 ECTS credits)

Courses to be chosen in each of the areas below:

Management of Information Systems

- IT Strategy
- Business Model Design & Innovation
- Business Analytics: Methods and Models
- Cybersecurity and Security Auditing
- Cybercrime and Economic Intelligence
- Project Management and Outsourcing

Engineering of Information Systems

- Enterprise Systems Integration
- Data Mining
- Web-Scale Analytics
- Interaction Design

Bases of Information Systems

- IS Management
- Software Architecture
- Analysis, Modeling and Design in IS
- Management of Enterprise Data

3rd semester (30 ECTS credits)

Research or internship dissertation

* the official study plan prevails.

PRACTICAL INFORMATION

Admission requirements

Candidates must be holders of a Bachelor of Science awarded by a Swiss university in one of the following areas: Business Information Systems; Economics, Management or Finance, provided that the candidates have earned at least 12 ECTS credits in informatics; in Informatics or Communication Systems provided that they have earned at least 12 ECTS credits in human and social sciences. Another degree or university title may be judged to be equivalent and give access to this Master's degree course, with or without further conditions.

Enrolment and final dates

The candidate's application must be submitted to the UNIL Admissions Department before 30th April:
www.unil.ch/immat

Candidates needing a study visa:
28th February

Start of courses

Mid-September
Academic calendar: www.unil.ch/central/calendar

Part-time Master's degree

Under certain conditions, a Master programme can be followed part-time. See www.unil.ch/formations/tempspartiel.

Timetables

www.unil.ch/hec/masters

General information on studies, guidance

www.unil.ch/soc

Career prospects

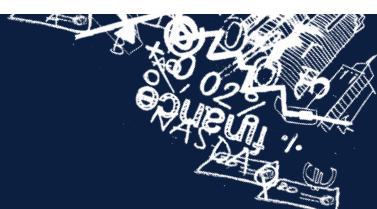
www.unil.ch/perspectives
www.heccareercenter.ch

Accommodation and financial assistance

www.unil.ch/sasme

International

www.unil.ch/international



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