



## How can we read tomorrow's markets correctly?

# Master of science (MSc) in finance

## GENERAL OUTLINE

### Objectives

Understanding the recent dramatic evolution of the world of finance is fundamental for a career related to Finance. As such, HEC Lausanne, a leader in European Finance training, is proud to organise a new orientation, Financial Entrepreneurship and Data Science, where students will get training on entrepreneurship - that is, how to create their own company, as well as training on the challenges that large data-sets represent.

In this innovative orientation, students will get, in addition to a traditional finance curriculum, knowledge of what hides behind buzz words, such as robo-advertising, peer-to-peer lending, predictive markets, and cryptocurrencies. The aim of this new orientation is to provide you with the necessary knowledge and language enabling you to discuss with an engineer who will then implement your requests.

The Master of Science in Finance also offers additional orientations to help the students gaining excellent quantitative knowledge and better understanding in the working of firms and financial institutions: Corporate Finance, and Asset and Risk Management.

In this program, students will understand how to manage portfolios by using quantitative methods and to assess the investments risks. In addition to providing strong theoretical bases, professors aim to teach the participants to apply their newly gained « know-how ».

The MSc in Finance has been recognized by the CFA Institute as a CFA Program Partner. Other partners are CAIA and FRM.

## GENERAL INFORMATION

### Organiser

HEC Lausanne: [www.unil.ch/hec](http://www.unil.ch/hec)  
 Institute of Banking and Finance:  
[www.hec.unil.ch/df](http://www.hec.unil.ch/df)

### Degree awarded

Maîtrise universitaire ès Sciences en finance  
 Master of Science (MSc) in Finance

Three mandatory orientations:

- Corporate Finance
- Asset and Risk Management
- Financial Entrepreneurship and Data Science

### ECTS credits

120

### Duration

4 semesters

### Teaching language

English. Recommended level: C1.

### Contact

Graduate School  
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Version: February 2018  
 Subject to changes.  
 Only the official texts should be considered binding.

## EDUCATIONAL CONTENT\*

### Description

The Master of Science (MSc) in Finance is a two-year program, 120 ECTS, constructed around four semesters. During the first semester students consolidate their previous Bachelor knowledge with the core courses in finance. From then on the philosophy is to have a combination of compulsory courses, courses specific to the orientations, and elective courses.

In the second semester, all students will have compulsory courses in Fixed Income & Credit Risk and Derivatives. Then, there are courses specific to each orientation:

#### Asset and Risk Management

- Empirical Methods in Finance
- Quantitative Asset and Risk Management

#### Corporate Finance

- Mergers and Acquisitions
- Financial Analysis.

#### Financial Entrepreneurship and Data Analytics

- Programming (how to handle big data-bases)
- Introductory course on Big Data Analysis and Machine Learning.

Those courses will be complemented by elective courses to be chosen in a pool of available courses.

The third semester touches practical aspects and provides additional elective courses. In each orientation, there is one class where students will get the opportunity to hone their soft-skills.

The fourth semester is dedicated to the writing of a Master thesis, which may be done during an internship with a local or international financial institution. It is also possible to write an academic thesis, in many cases the first step towards a PhD.

\* the official study plan prevails.

### Mobility

During their third semester, based on their previous performance, students may study in a university recognised by UNIL, under an exchange program. They may get a maximum of 30 credits in another institution. The prior authorisation of the Master's committee is required for the recognition of credits earned abroad.

### Career prospects

University studies develop many transversal skills: oral and written communication, critical, analytical and summarising faculties, abilities in research, etc.

This panoply of skills, combined with specialist knowledge acquired in the course of studies, is an excellent preparation for a wide range of employment opportunities in all sorts of industries. This Master prepares for high-level financial careers in companies requiring profound knowledge of corporate finance and risk management techniques:

- Banks (central, retail, private, and investment), insurance companies
- Wealth manager or advisor in family offices
- Consulting companies
- Corporate finance
- Pension funds
- Trading
- Government bodies, regulators, international institutions
- Venture capital, M&A, structuring, funding
- Research, doctoral studies, academic career

## GENERAL INFORMATION

### Admission requirements

A Bachelor's degree from a Swiss university in Economics, Management, Finance or Information Systems.

Another degree or university qualification may be judged equivalent and give access to the Master's program, with or without conditions.

### Regulations and additional information

[www.unil.ch/hec/masters](http://www.unil.ch/hec/masters)

### Enrolment and final dates

The candidate's application must be submitted to the UNIL Admissions Department before 30<sup>th</sup> April: [www.unil.ch/immat](http://www.unil.ch/immat)

Candidates needing a study visa: 28<sup>th</sup> February

### Start of courses

Mid-September. Academic calendar: [www.unil.ch/central/calendar](http://www.unil.ch/central/calendar)

### Part-time Master's degree

Under certain conditions, this Master program can be followed part-time: [www.unil.ch/formations/tempspartiel](http://www.unil.ch/formations/tempspartiel)

### General information on studies

[www.unil.ch/soc](http://www.unil.ch/soc)

### Career prospects

[www.unil.ch/perspectives](http://www.unil.ch/perspectives)  
[www.heccareercenter.ch](http://www.heccareercenter.ch)

### Accommodation and financial assistance

[www.unil.ch/sasme](http://www.unil.ch/sasme)

### International students

[www.unil.ch/international](http://www.unil.ch/international)

### Study abroad opportunities

[www.unil.ch/echanges](http://www.unil.ch/echanges)



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