

**MASTER OF SCIENCE IN FINANCE (MScF, 90 ECTS), MASTER OF SCIENCE EN FINANCE
 MASTER OF SCIENCE IN FINANCE (MScF, 120 ECTS), MASTER OF SCIENCE EN FINANCE
 MASTER OF SCIENCE IN FINANCE WITH DATA SCIENCE MAJOR (MScF, 120 ECTS), MASTER OF SCIENCE
 EN FINANCE AVEC MAJEUR EN DATA SCIENCE**

Code	Course	Instructor	ECTS	Module MScF (90/120 ECTS)	Module Data Science Major (120 ECTS)	H/week	Grading Policy
Semester 1 - Autumn							
5AF2003	Asset Pricing	Kröncke T.	6	M	M	4	EI+E
5AF2009	Fixed Income	Guidotti I.	6	M	M	4	E
5AF2001	Financial Accounting	Fiechter P.	6	M	M	4	E
5AF2041	Quantitative Methods for Finance	Kröncke T.	3	M	M	2	E
5AF2035	Corporate Social Responsibility and Governance	Biedermann D.	3	M	M	2	E
5ER2001	Economic Policy	Stuart R.	6	E	E	2+2	E
5ST2001	Econometrics	Starica C.	6	E	M*	4	EI+E
Semester 2 - Spring							
5AF2008	Corporate Finance	Salva C.	6	M	M	4	EI+E
5AF2002	Derivatives	Weigert F.	6	M	M	4	EI+E
5AF2007	Portfolio Management	Kröncke T.	3	M	M	2	E
5AF2019	Financial Analysis	Fiechter P.	3	M	M	2	EI
5AF2020	Valuation	Salva C.	3	M	M	2	EI+E
5AF2029	Programming	Simon E.	3	M	M	2	E
5AF2039	Finance Ethics	Fiole E.	3	M	M	2	E
5ER2045	International Monetary System	Siviero A./Stuart R.	3	E	E	2	E
5MI2045	Computational Thinking	Holzer A.	3	E	M*	1 week	EI

Modalités d'inscription et conditions de réussite :

Règlement d'études et d'examens des Masters of Science en sciences économiques, du 6 mai 2019, état au 1^{er} septembre 2019.

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Semester 3 . Autumn							
5AF2028	Equity Research Contest ⁺	Salva C.	6	M	M	4	EI
5AF2030	Alternative Investments	Weigert F.	6	M	M	4	EI+E
5AF2026	Risk Management	Weigert F.	3	E	E or E*	2	EI+E
5AF2023	Portfolio Optimization	Sonney F.	3	E	E or E*	2	EI
5AF2021	Research in Financial Analysis	Kröncke T.	6	E	E or E*	4	EI+E
5ST2001	Econometrics	Starica C.	6	E	M*	4	EI+E
5MI1005	Data Science for Business	Cotofrei P.	6	E	M*	4	EI+E
5MI2017	Data Management	Ciorascu I.	6	E	E or E*	4	EI+E
5ER2001	Economic Policy	Stuart R.	6	E	E	2+2	E
Total MScF - 90 ECTS²			90				

Semester 4 - Spring (Research Option)							
5AF2044	Master thesis		30				
5AF2045	Internship thesis		30				
Total MScF - 120 ECTS³			120				

Semester 4 - Spring (Data Science Option)							
5MI2018	Machine Learning	Ciorascu I.	6	E	E or E*	4	EI+E
5MI2003	Business Analytics	Cotofrei P.	6	E	E or E*	4	EI +E
5MI2012	Computational Thinking	Holzer A.	3	E	M*	1 week	EI
5ER2020	Applied Microeconometrics	Lanz B.	6	E	E or E*	4	EI+E
5AF2038	Field Project in Finance and Data Science		9		E		EI

Module abbreviations

M Mandatory

E Elective

* Course counts in the Data Science Major

+ Based on the Principles governing the operation of FSE courses involving companies/institutions outside the Faculty.

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²Master in Finance (90 ECTS)

Students in the Master in Finance (90 ECTS) need to earn 90 ECTS at least, 63 ECTS in mandatory (M) and 27 ECTS in elective (E) courses.
For complete details, please refer to the Directive concerning the study plan of the Master of Science (MSc) in Finance from the academic year 2022-2023 (onwards).

³Research Option: Master in Finance (120 ECTS)

Students in the Master in Finance (120 ECTS) need to meet the criteria of the Master in Finance (90 ECTS) and they must validate the master thesis or internship thesis (30 ECTS)
For complete details, please refer to the Directive concerning the study plan of the Master of Science (MSc) in Finance from the academic year 2022-2023 (onwards).

⁴Data Science Option: Master in Finance with Data Science Major (120 ECTS)

Students in the Master in Finance with Data Science Major (120 ECTS) need to earn 120 ECTS at least, 78 ECTS in mandatory (M) courses, 42 ECTS in elective (E) courses.
At least 33 ECTS must be earned in courses that count in the Data Science module (*). A maximum of 45 ECTS can be credited to the Data Science module.
For complete details, please refer to the Directive concerning the study plan of the Master of Science (MSc) in Finance from the academic year 2022-2023 (onwards).

In addition

In place of the electives (E, E*), a maximum of 18 ECTS can be chosen in other master programmes at the Faculty of Economics and Business and/or MScF programmes in other Swiss universities. Approval of the Director of the MScF is mandatory.

As part of these 18 ECTS :

- 6 electives (E) ECTS can be replaced by an internship of at least 6 weeks including the writing of a report supervised by a professor of the Faculty of Economics and Business. Approval of the Director of the MScF is mandatory.
- 6 electives (E) ECTS can be replaced by passing the CFA level I exam, or the GARP/FRM part I exam. Only one of the two exams can count.
- 3 electives (E) ECTS can be replaced for participating in the "CFA Institute Research Challenge Final, Switzerland"

4AF2040 Internship with report

5AF2031 CFA level I

5AF2042 GARP/FRM part I exam

5AF2043 CFA Institute Research Challenge Final

Reading week

A reading week (*semaine de lecture*) takes place in week 45 of the autumn semester. It enables students, at mid-semester, to identify possible gaps in their understanding of the subject matter, the acquisition of knowledge and the learning of methods. The reading week is an integral part of the programme and may be accompanied by mock, or mid-term, exams in some courses.

Grading Policy

E: Exam during the exam session at the end of the semester

EI: Evaluation organized during the semester

Retake exam after 1 failure: unless otherwise specified in the course description, 2h written exam during the exam session at the end of the semester or the September session.
The detailed terms of evaluation are specified in the course descriptions.

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