

**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 ORIENTATION DATA SCIENCE**

MScF	Instructor	ECTS	Module	H/week	Grading Policy
Semester 1 Autumn					
Asset Pricing	<i>Kröncke T.</i>	6	M	4	EI
Fixed Income	<i>Guidotti I.</i>	6	M	4	EI
Econometrics	<i>Starica C.</i>	6	M	4	EI
Financial Accounting	<i>Fiechter P.</i>	6	M	4	EI
Economic Policy	<i>Zhang H.</i>	6	E	2+2	EI
Total		24-30		16-20	
Semester 2 Spring					
Corporate Finance	<i>Salva C.</i>	6	M	4	EI
Derivatives	<i>Weigert F.</i>	6	M	4	EI
Portfolio Management	<i>Kröncke T.</i>	3	M	2	EI
Financial Analysis	<i>Fiechter P.</i>	3	M	2	EI
Valuation	<i>Salva C.</i>	3	M	2	EI
Programming	<i>Ciorascu I.</i>	3	M/DS-M	2	EI
International Monetary System	<i>Siviero A./Zhang H.</i>	3	E	2	EI
Ethics	<i>Fiole E.</i>	3	E	2	EI
Total		24-30		16-20	
Semester 3 Autumn					
Equity Research Contest	<i>Salva C.</i>	6	M	4	EI
Research in Financial Analysis	<i>Kröncke T.</i>	6	M	4	EI
Risk Management	<i>Bolliger G.</i>	6	E	4	EI
Portfolio Optimization	<i>Sonnef F.</i>	3	E	2	EI
Current Issues in Portfolio Management	<i>Kröncke T.</i>	3	E	2	EI
Alternative Investments	<i>Bacmann J.F. & Jeanneret P. & Martin J.</i>	3	E	2	EI
Corporate Social Responsibility and Governance	<i>Biedermann D.</i>	3	E	2	EI
Data Science for Business	<i>Cotofrei P.</i>	6	E/DS-M	4	EI
Data Management	<i>Ciorascu I.</i>	6	E/DS-M	4	EI
Field Project in Financial Analysis		6	E		EI
Total		12-48		8-32	
Semester 4 Spring (Research Option)					
Research Thesis		30			
Semester 4 Spring (Data Science Option)					
Machine Learning	<i>Ciorascu I.</i>	6	DS-M	4	EI
Computational Thinking	<i>Simon E.</i>	3	DS-M	1 week	EI
Business Analytics	<i>Cotofrei P.</i>	6	DS-M	4	EI
Applied Econometrics	<i>Lanz B.</i>	6	E	4	EI+E
Field Project in Finance and Data Science		9	E		EI
Total		6-30		4-20	
Grand Total		90-120			

Master in Finance (90 ECTS)

- All students need to earn 90 ECTS at least, 60 ECTS in mandatory (M or DS-M) and 30 ECTS in elective (E) courses.
- In place of the electives (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. In addition, 6 elective 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. In addition, 6 elective ECTS can be replaced by passing the CFA level I exam.

Research Option (120 ECTS)

- Students interested in a research career have the option to complete a research thesis to earn 30 ECTS and bring the total amount of ECTS to the number of 120.

Data Science Option (120 ECTS)

- Students interested in Data Science can earn 30 ECTS in the Data Science Track (DS-E or DS-M) and bring the total amount of ECTS to the number of 120.
- In this case, the courses DS-M are mandatory. In addition, the courses Programming (3 ECTS, DS-M), Data Science (6 ECTS, DS-M) and Data Management (6 ECTS, DS-M) are automatically converted to Data Science Track courses.
- Computational Thinking (Data Science Major); one-week workshop organised the week before the beginning of semester 4 spring. The course Computational Thinking can be anticipated in the second semester.

E: exam during the exam session at the end of the semester; EI: evaluation organized during the semester

Retake exam after 1 failure: 2h written exam during the exam session at the end of the semester or the September session.

Retake exam after a justified absence: 2h written exam during the exam session at the end of the semester or the September session or evaluation organized during the semester. *The detailed terms of evaluation are specified in the course description.*