

Banking and Finance

Master of Science (MSc) – At a Glance

PROGRAM IN ENGLISH



Building Competence. Crossing Borders.

Professional Perspectives

Full-time Master of Science in Banking and Finance

The Master of Science in Banking and Finance – Program in English enables students to focus on one of the recent megatrends in the financial service sector and requires just one year of attendance.

The MSc in Banking and Finance – Program in English profile is derived from the goal of preparing students for demanding roles in the financial sector or closely related fields. The curriculum contains management modules, banking and finance modules, and methodological modules. Moreover, the students have the possibility to focus either on Capital Markets & Data Science or Digital Banking & Innovation.

CAPITAL MARKETS & DATA SCIENCE

The availability of ever-increasing amounts of data and the growing computer power are changing the world of work in many ways and on a fundamental level. This is certainly true for the financial services industry. One driver for the growing use of data science is the proliferation of tools such as Python and their corresponding libraries that allow analysis of large quantities of data. These tools are not just a modern form of an “Excel spreadsheet,” but they provide access to highly powerful pre-trained AI models. Accordingly, financial market players use data science methods more and more frequently and concerning many different aspects of their work. Learning to use these tools is a key component of Capital Markets & Data Science. In capital markets, for example, applications include the development of trading strategies or new financial products. Furthermore, customer, credit, or transaction data are analyzed using the appropriate methods.

A specialization in Capital Markets & Data Science covers these topics methodically and comprehensively. In addition to advanced knowledge of quantitative methods as well as the application of machine learning and deep learning algorithms, focus areas are quantitative investment strategies, illiquid investments, and sustainable investments.

DIGITAL BANKING & INNOVATION

Digitalization, a megatrend that has reached most industries, is also revolutionizing the financial services industry. The need to transform processes and business models is increasing, and the way we communicate and interact with customers and other stakeholders is transforming. At the same time, customer needs are changing, and new market participants are emerging. Our specialization in Digital Banking & Innovation covers these topics methodically and comprehensively. Focus areas include methods of empirical social research such as experiments, which are particularly relevant in behavioral economics and finance; another important topic are agile methods. In this context, the program addresses issues such as the importance of innovative forms of project management and product and process development, such as kanban, scrum, or design thinking, and the requirements to be met for their effective use.

Digital Banking & Innovation covers the business models, business processes, structures, and cultural elements of the financial industry. Customer orientation and entrepreneurship are of particular interest in this context, and both traditional and new business models are considered.

Program Overview

AT A GLANCE

Title	Master of Science (MSc) in Banking and Finance
Start	Mid-September
Workload	90 ECTS* credits, approx. 2,700 hours of work (*ECTS = European Credit Transfer System)
Length of Program	3 semesters of full-time study with 11 months classroom lectures
Location	Winterthur, Switzerland
Fees	CHF 720 semester fee, including flat rate exam fee; CHF 500 additional semester fee payable by students legally domiciled outside Switzerland; registration fee and enrollment fee: CHF 100 (fees are subject to change)
Admission Requirements	Bachelor's degree in business administration, economics, business law, or a related discipline from a university or university of applied sciences, or an equivalent qualification. Advanced knowledge of banking and finance. In some cases, credit may be awarded for relevant professional activity. Proof of English proficiency. High level of motivation and ability to perform.
Language	English
Profile	This consecutive Master's program focuses on the acquisition and application of methodological competencies in addition to the deepening of specific specialist competencies and the development of social and personal competencies. It addresses the social context of the banking industry, also in connection with the effects of the financial market crisis, as well as the challenges of digital transformation and new customer needs. In this context, special emphasis is placed on interdisciplinary and intercultural work.
Further Details	>>> www.zhaw.ch/en/sml/study/master/

MODULE OVERVIEW THREE SEMESTER FULL-TIME PROGRAM

3rd semester 30 ECTS credits	Master's Thesis 15 ECTS credits			Zurich International Week 6 ECTS credits		Business Model Innovation and Technologies 9 ECTS credits	
						Machine Learning and Deep Learning 9 ECTS credits	
2nd semester 30 ECTS credits	Agile and Innovation Methods 6 ECTS credits	Customer Behavior Research Methods 3 ECTS credits	Customer Experience Management 3 ECTS credits	Risk Management 6 ECTS credits	Strategic Innovation Management 3 ECTS credits	Advanced International Research Projects 6 ECTS credits	Elective 3 ECTS credits
	Quantitative Investment Strategies 6 ECTS credits	Sustainable Investments 3 ECTS credits	Advanced Quantitative Methods 3 ECTS credits				
1st semester 30 ECTS credits	Investments 6 ECTS credits	Corporate and Entrepreneurial Finance 3 ECTS credits	International Economics 3 ECTS credits	Institutional Frameworks 3 ECTS credits	Quantitative Methods 6 ECTS credits	International Research Projects 9 ECTS credits	

■ Focus on Digital Banking & Innovation
 ■ Focus on Capital Markets & Data Science

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