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# Quantitative Asset and Risk Management

**Master programme** | Career-parallel

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**Raphael Siegert, MA, CFA**

Graduate and fund manager at  
3 Banken-Generali Investment  
GmbH

„Quantitative Asset and Risk Management is a very intensive master programme, which is just the thing for number-crunchers interested in finance, mathematics and statistics. The degree programme offers comprehensive quantitative know-how in asset and risk management, winning you over with practice-oriented applications. Since the studies are quite internationally-oriented, there are numerous possibilities for a successful career in finance and insurance.“



Dear prospective student,

choosing the right degree programme can be challenging. Thank you for considering Quantitative Asset and Risk Management in making your choice.

The programme, of particular interest for students with an inclination towards analytical thinking and mathematics, is an ideal opportunity for continuing your studies and enhancing your CV. Students in the programme gain extensive expertise in asset and risk management with a focus on quantitative methods. Theory of financial models is combined with their practical application in today's financial industry. You will benefit from a faculty of academic and professional experts, who are passionate about their subjects and, based on their wide range of working experience, provide an insight into the life of a finance professional.

Our programme, aimed at an international student body, is run in English and requires students to spend part of their study time abroad. The practical nature of our courses and the international orientation of the programme equips our graduates with the skills required to practice their professions anywhere in the world, be it in the financial industry or at a financial regulatory authority. To ensure that the programme's content remains up-to-date and of practical relevance, our team maintains close contact with industry partners, PRMIA, SAS, CFA Society and Fenion. These relationships provide you with further access to industry experts and potential employers.

This is an ideal environment for you to enhance your personal and professional networks. We know that a master degree is an investment in your future and, like you, we are keen to see this investment pay off.



**Prof. in (FH) Mag.ª Silvia Helmreich**

Degree programme director

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## What you can expect from your studies

The degree programme is optimally aligned with the current requirements and developments of the working world and provides you with the competencies and content relevant to practice. Graduates are able to:

- describe and analyse the connections between asset and risk management in finance.
- quantify and assess risk types in risk management and infer measures for the integrated management of banks and insurance companies.
- analyse various asset classes and their products.
- carry out portfolio selections and calculate key performance and risk measures.
- apply financial mathematics and statistics to develop financial models.

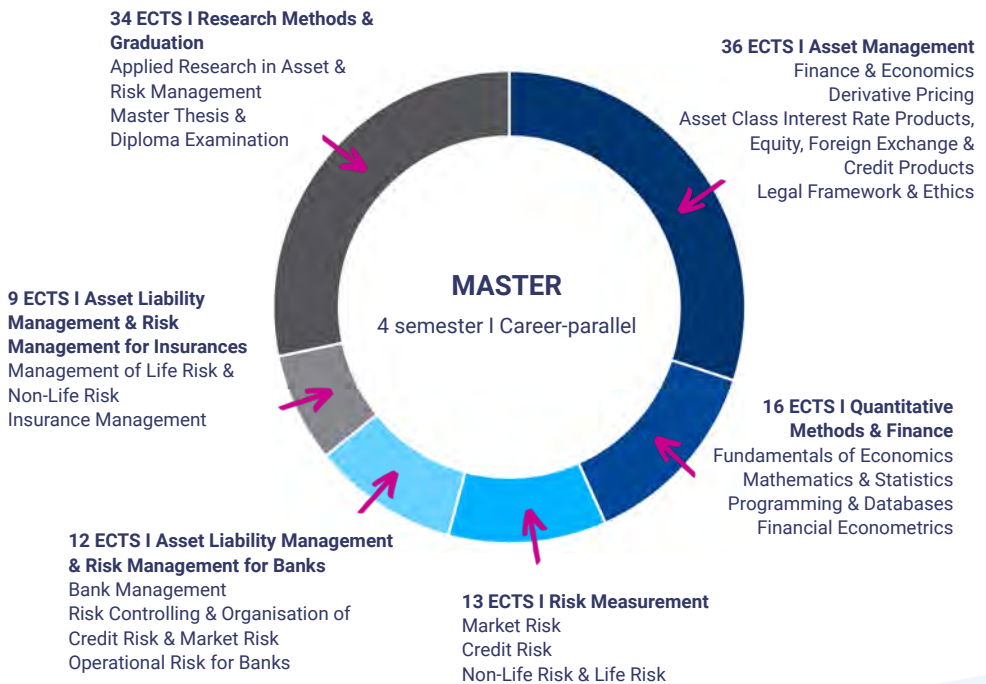
## What awaits you after graduation

After completing your studies, a wide range of career opportunities are open to you:

- Asset management
- Risk management and risk controlling
- Liability management
- Private banking and family office
- Compliance and regulatory reporting

# Main focus

The master programme offers you a scientifically sound as well as practice-oriented education at the cutting edge.



# Curriculum

## 1st SEMESTER

Course title	Type of course	Language	Module	ECTS
Fundamentals of Mathematics & Statistics	ILV	E	Fundamental Quantitative Methods & Finance	4
Fundamentals of Finance	ILV	E		5
Programming & Databases	ILV	E		4
Fundamentals of Economics	ILV	E		3
Multivariate Methods	ILV	E	Financial Econometrics	5
Time Series Analysis	ILV	E		3
Equity & Foreign Exchange Derivatives	ILV	E	Derivative Pricing	2
Fixed Income & Credit Derivatives	ILV	E		4
Total ECTS				30

## 2nd SEMESTER

Course title	Type of course	Language	Module	ECTS
Measurement of Market Risk	ILV	E	Risk Measurement	4
Measurement of Credit Risk	ILV	E		4
Measurement of Non-Life Risk	ILV	E		2
Measurement of Life Risk	ILV	E		3
Introduction to Asset Management	ILV	E	Asset Management	2
Asset Class Interest Rate Products	ILV	E		2
Asset Class Equity	ILV	E		2
Asset Class Foreign Exchange	ILV	E		1
Asset Class Credit Products	ILV	E		2
Alternative Investments				2
Structured Products	ILV	E		2
Research Methods	UE*	E	Research Methods	1
Research Seminar	SE	E		3
Total ECTS				30

## 3rd SEMESTER

Course title	Type of course	Language	Module	ECTS
Bank Management	ILV	E	Asset Liability Management & Risk Management for Banks	5
Risk Controlling & Organisation of Market Risk	ILV	E		2
Risk Controlling & Organisation of Credit Risk	ILV	E		3
Operational Risk for Banks	ILV	E	Asset Liability Management & Risk Management for Insurances	2
Management of Life Risk	ILV	E		3
Management of Non-Life Risk	ILV	E		3
ALM & Insurance Management	ILV	E		3
Integrating Aspects of Asset Management	ILV	E	Applied Asset Management	6
Legal Framework & Ethics	ILV	E		3
Total ECTS				30

#### 4th SEMESTER

Course title	Type of course	Language	Module	ECTS
Advanced Topics in Asset Management	PS	E	Applied Research in Asset & Risk Management	6
Master Thesis		E		18
Diploma Examination		E		6
<b>Total ECTS</b>				<b>30</b>

ILV: Integrated course I UE\*: Practical course with low assessment load I SE: Seminar I PS: Project seminar







It has been a pleasure for me to participate in the programme „Advanced Topics in Asset Management“. It was great to have the chance to bring the knowledge acquired during my studies into play.

It also was challenging and instructive to work in international teams, create networks, and get insights from the business professionals of Raiffeisen Bank.



**Alessandro Putoto, BA**  
Student



# Experience internationality

The University of Applied Sciences BFI Vienna cooperates with over 80 partner universities all over the world. This international network results in joint projects and an intensive exchange of lecturers and students. A stay abroad offers you the unique opportunity to make international contacts, expand your foreign language skills, get to know other cultures and develop professionally and personally. In addition, it opens up a wide range of career opportunities for you.

## Intensive Programme: Advanced Topics in Asset & Risk Management

That is why a stay abroad is obligatory in the second academic year of the master programme. You can choose between long-term mobility (semester abroad, double degree programme) or short-term mobility (Intensive Programme: Advanced Topics in Asset and Risk Management). As a participant of the intensive programme you will spend two weeks at one of our partner universities and have the opportunity to receive inspiring input from experts in workshops and lectures, as well as working on a business case in intercultural teams.



### APPLICATION DEADLINE

For semester abroad in the winter semester: 15 March (Double degree applicants: 1 April)

For semester abroad in the summer semester: 15 September (Double degree applicants: 1 October)



### DOUBLE DEGREE PROGRAMM

University of Bologna (Italy), University of Economics in Katowice (Katowice, Poland) and Alexandru Ioan Cuza University (Iași, Romania)



### PARTNER UNIVERSITIES

e.g. in China, Italy, Poland, Spain, Slovenia, Romania & Russia



### SEMESTER ABROAD

recommended in 3rd or 4th semester



### Mag. Claus Inanger

Mobility coordinator - Outgoing students

[claus.inanger@fh-vie.ac.at](mailto:claus.inanger@fh-vie.ac.at)

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# Studying at UAS BFI Vienna

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## Admission requirements

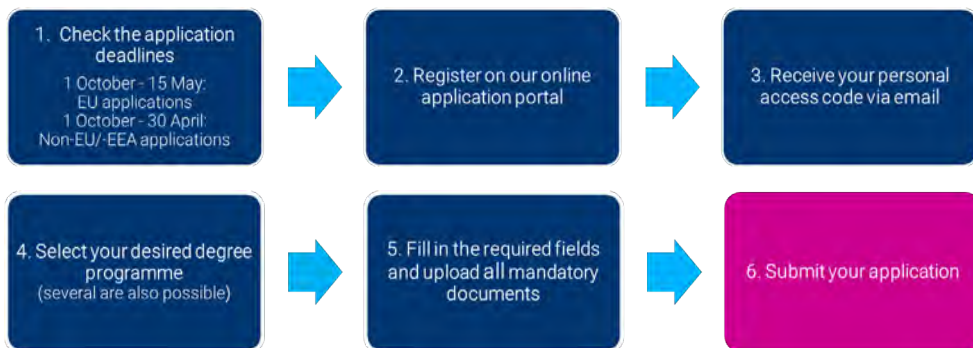
If you meet these admission requirements for the master programme, nothing more stands in the way of your application:

- Secondary school leaving-certificate (High school diploma)
- Completion of a social studies/business/natural science/law/technical bachelor degree in Austria or equivalent bachelor degree abroad
- Qualifications in economic sciences (at least 9 ECTS), mathematics or statistics (at least 6 ECTS) as well as in English (C1, does not apply to native speakers).

## Bridging courses for missing ECTS

Take advantage of the free [bridging courses](#) offered by the UAS BFI Vienna (May to July) to acquire missing ECTS and qualify for admission to a master programme.

## Your application in 6 steps



## Admission procedure for your desired degree programme

The admission procedure consists of an **admission test** (60%, online multiple-choice test) and an **admission interview** in English (40 %, analysing a Bloomberg article and discussing the content). It takes place from March to June.

Once your application documents have been fully checked, you can select a date for your individual admission test via the application portal. From the end of January/beginning of February, preparation materials for the admission test will be available on our [website](#), which you can use to prepare yourself optimally. All applicants who have passed the test are then invited to the interview.

In the guide "[Application & Admission](#)" we give you a comprehensive overview of the admission procedure at our UAS – from your registration on the application portal to the admission to your chosen degree programme.

**Apply now**

# Highlights

of the degree programme Quantitative Asset and Risk Management



Excellent career opportunities in the international finance sector



Opportunity to obtain the SAS Joint Certificate



English language based programme with students and lecturers with international backgrounds



# 7 good reasons

for studying at University of Applied Sciences BFI Vienna

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## 1 Practical focus

Close ties with companies and lecturers from the economy

## 2 Innovative

Outstanding academic expertise

## 3 Compatible with employment

Specially timetabled and online courses

## 4 Forward-looking

Cutting-edge degree programmes

## 5 International

Part of a worldwide network

## 6 People-centered

Small, motivated groups and supportive teaching staff

## 7 Top location

In the heart of Vienna, the most liveable city in the world

# Let's stay in touch



 [instagram.com/fhdesbfiwien](https://www.instagram.com/fhdesbfiwien)

 [linkedin.com/school/fachhochschule-des-bfi-wien](https://www.linkedin.com/school/fachhochschule-des-bfi-wien)

 [facebook.com/FHdesbfiWien](https://www.facebook.com/FHdesbfiWien)

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ALL UAS BFI VIENNA STUDENTS  
CAN GET THE **PRO VERSION**  
OF THE STUDO APP  
**FOR FREE!**

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# Quantitative Asset and Risk Management

## At a glance



### DEGREE

Master of Arts in Business (MA)



### COURSE LANGUAGE

English



### DURATION OF STUDIES

4 semesters | 120 ECTS



### STUDY PLACES

25



### VERONIKA HALLWIRTH

Degree programme coordinator

[veronika.hallwirth@fh-vie.ac.at](mailto:veronika.hallwirth@fh-vie.ac.at)

+43 1 720 12 86-931



### STUDY LOCATION

Campus Wohlmutstrasse

1020 Vienna



### STUDY TIMES

Career-parallel: three times a week  
in the evening and Saturdays during  
the day



### TUITION FEES

€ 363.36 per semester  
(+ € 21.20 student union fee)

**My Future.  
My Education.**

**FH**  
UAS BFI Vienna

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**Campus Wohlmutstrasse**

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Thanks to our partners



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