WU SBWL Messe, January 15, 2024

SBWL Finance Markets, Institutions & Instruments

WIRTSCHAFTS UNIVERSITÄT WIEN VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS





EQUIS 📘 AACSB 🎲 AMBA

What is "Finance"?

- Finance is an integral part of most economic activities and of fundamental importance to the functioning of modern societies.
- According to Bodie (2019)...
 - Finance is a science that deals with the allocation of scarce resources over time under conditions of uncertainty
 - Financial activities consist of borrowing, lending, saving, investing, hedging and insuring
 - Finance also concerns the institutions that intermediate these activities, i.e. banks, mutual funds, insurance companies, pension funds, securities exchanges and regulatory agencies
- Numerous Nobel Prizes for Economics awarded for work in finance, amongst others to Modigliani (1985), Miller (1990), Markowitz (1990), Sharpe (1990), Merton (1997), Scholes (1997) and Fama (2013)

SLIDE 2

The Finance Specialization: 5 Courses



Course I: Principles of Capital Markets

Course II: Financial Management and Valuation

Course III: Corporate Finance

Course IV: Risk Management





SLIDE 3

Course I: Principles of Capital Markets



What is the expected return of a stock?

- Decision theory under uncertainty
- Measurement of financial risk
- Portfolio choice theory
- Capital Asset Pricing Model
- Factor models

Modern Portfolio Theory



Course II: Financial Management and Valuation



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How to evaluate derivatives and investment projects?

- Derivatives (Futures, Forwards, Options, Swaps)
- Binomial pricing models
- Risk-neutral valuation
- Investing in risky projects
- Allocating capital
- Corporate strategy

Derivative Pricing



Course III: Corporate Finance



How should firms finance their operating & investing activities?

- Corporate financing and real asset valuation
- Financing policies and implications for firm value under:
 - Tax shields and financial distress
 - Conflicts of interest between investors
 - Conflicts of interest between owners and management
 - Informational frictions about firm value

Capital Structure





Course IV: Risk Management



How can firms manage their risk?

- Risk measures
- Importance of risk management
- Credit risk
- Interest rate risk
- Foreign exchange risk

Hedging Strategies





Course V: Elective ("Make your pick!")



Choose among 8-10 advanced and topical electives

Electives the 2023-24 winter term and/or in the 2024 summer term:

- Banks, Accounting and Supervision
- Corporate Finance: Principles & Practice
- Estimating the Cost of Capital
- Financial Technology and New Sources of Data in Asset Management
- Innovating Exchange Industry
- Insurance Economics
- Quantitative Finance
- Quantitative Optimization Methods in Finance
- Service Valuation
- Fintech Lab: Design your own Start-up

Deepen & Apply Your Skills





Broaden & sharpen your skill set...





In addition, a set of important skills is obtained in the Finance specialization:

- Analytical and computational skills
- Data analysis involving real-world data sets
- Expertise in MS Excel or the programming language R
- Independent problem solving
- Presentation skills (in English)



Career Prospects



Our graduates are well equipped for a career in:

- Corporate finance
 - Treasury
 - Controlling
 - Risk management
- Financial institutions
 - Banks, (re)insurance industry
 - Investment funds, private equity funds, pension funds
 - Securities exchanges
- Wealth management
- Consulting industry
- Financial advisory







You should apply if...

We recommend the Finance specialization to all students who:

- Have a keen interest in financial economics
- Have had basic training in mathematics (i.e., differential calculus and matrix operations) and statistics (i.e., basic probability theory and regression analysis)
- Either have or are willing to acquire expertise in using statistical / computational software (MS Excel or R)
- Have good command of (written and spoken) English

Further study-regulatory requirements:

None (see "Studienplan")



Admission

- Application via LPIS during the official SBWL application period
 - ET "Access to Specialization: Finance: Markets, Institutions and Instruments"
- Capacity is limited to 300 students per semester
- Acceptance only valid for upcoming term
- Final admissions are announced at the end of September and February, respectively
- Next application period: Feb. 1 to Feb. 5, 2024 (please check VVZ)
- After official admission:
- Enrollment to courses I and II via LPIS
- Enrollment to courses III, IV and V after successful completion of courses I & II



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Structure of Specialization



UNIVERSITY OF ECONOMICS

SLIDE 13

Combination of Lectures & Interactive Elements (Courses I-IV)

- Courses I-IV are organized in (up to) 10 parallel VUEs:
 - Joint lecture
 - Individual exercise sessions: no more than 30 students per class
- Lecture: no attendance requirements
 - Once per week over 5 weeks
 - Focus on theoretical foundations
- Interactive part: attendance compulsory
 - Interactive exercise sessions once per week over 5 weeks
 - Focus on applications of concepts introduced in lecture
 - Students present their own solutions in class
- Final grade: Lecture (40%) + Interactive Part (60%)
- See VVZ for more infos and current schedule



Bachelor Theses

- We offer Bachelor theses supervision for ~70 students per semester
- Applications can be submitted via the <u>Institute Website</u> at the beginning of each term
- Allocation is based on both topic preferences and students' GPA
 - Students of the SBWL Finance are given priority
- You can submit your own topic proposal
 - Own proposals usually increase the chance for supervision
- No specific requirements regarding "Grundlagen wissenschaftlichen Arbeitens" (GWA), i.e., every GWA is accepted
- We recommend the prior completion of the lecture "Numerische Methoden in der Finanzwirtschaft" (or the elective "Quantitative Optimization Methods in Finance")



ECONOMICS



Outlook: Master Programs in Finance

Our institute offers 2 Master programs:

- Finanzwirtschaft und Rechnungswesen ("FiRe", in German)
 - SBWL Finance + lectures "Finanzierung" and AMC I-III are sufficient for WiSo students to acquire the formal requirements (35 ECTS from the FiRe area)
 - The additional completion of one of the SBWLs in Accounting is strongly recommended
- Quantitative Finance ("QFin", in English)
 - Multi-stage selection process
 - Assessment of "Achievement Potential" (GMAT, GRE, recommendation letters, ...)
 - In addition to the SBWL Finance, the completion of the SBWL "Wirtschaftsmathematik" is strongly recommended!



Further Information & Contact Details



You can download this presentation here:

https://www.wu.ac.at/finance/study/bsc/sbwl-finance-markets-institutions-instruments





Involved Faculty at the Institute for Finance, Banking and Insurance (I/III)



Program officer (PPV) and lecturers Courses I-IV:

- Univ.Prof. Dr. Rainer Jankowitsch
- Dr. Felix Fattinger
- Dr. Petra Halling
- Univ.Prof. Alexander Mürmann, PhD
- Univ.Prof. Dr. Stefan Pichler



Involved Faculty at the Institute for Finance, Banking and Insurance (II/III)



Lecturers Course V (Electives):

- Univ.Prof. Dr. Stefan Bogner
- ao.Univ.Prof. Dr. Erwin Eszler
- Mag. Ludwig Hillinger
- Dr. Tobin Hanspal, Dr. Rüdiger Weber
- Dr. Hanna Karoliina Koivulehto
- Univ.Prof. Dr. Christian Laux
- Mag. Georg Mikula
- Univ.Prof. Dr. Stefan Pichler
- Dr. Stefan Rufera, Alexander Aschl, BSc MSc, Mag. Tomasz Kilarski, Mag.(FH) Jürgen Schuster, M.A., Johannes Weber, BSc.MSc., Robert Witte, MSc
- Mag. Vinzenz Treytl, Dr. Alexander Eisl, Bakk.techn., Dr. Evgeniia Filippova-Karlusch, Mag. Dr. Walter Mösenbacher, Mariella Schultes, MA, Thomas Pannermayr, MSc
- Mag. Martin Wenzl, Thomas Rainer, MA



Involved Faculty at the Institute for Finance, Banking and Insurance (III/III)



Instructors Interactive Part (Courses I-IV):

- Rainer Brand
- Anna Csiky
- Dr. Rui Duan
- Dr. Felix Fattinger
- Dr. Petra Halling
- Daniel Hill
- Natalija Kostic
- Dr. Philipp Lentner

- Viktoria Muthsam
- Dr. Markus Parlasca
- Alexander Pasler
- Thi Thuy Dung Phung
- Zhou Ren
- Elizabeth Rinde
- Bogdan Stankovski
- Pan Yiming

