Course and Examination Fact Sheet: Spring Semester 2021

8,172: Real Estate Finance

ECTS credits: 4

Overview examination/s
(binding regulations see below)
Decentral - Written examination (60%, 60 mins.)
Examination time: term time
Decentral - examination paper written at home (individual) (40%)
Examination time: term time

Attached courses
Timetable – Language – Lecturer
8,172,1.00 Real Estate Finance – Englisch – Füss Roland

Course information

Course prerequisites
Students should be interested in finance and investments and should have an intermediate knowledge of mathematics and statistics, as well as microeconomics and macroeconomics (course in economic principles).

Learning objectives
The objective of the course is to provide students with a thorough understanding of the residential and the commercial real estate market. Students will also be trained in modeling mortgages and real estate simulation using R.

Course content
This course introduces students to the theoretical foundations and practical applications of real estate asset management and investment strategies. Students gain fundamental insights into real estate capital markets, valuation techniques, debt and equity finance, and real estate investment strategies. The course also provides a comprehensive coverage of (international) real estate capital markets and the structure of securities, such as REITs, private funds, and property derivatives. There will be also an extensive discussion of current developments in the real estate sectors, such as sustainability and green investing in the real estate sector. There will be tutorials in R to provide practical experience.

In particular, students will

- become familiar with the real estate space and asset markets, their financial fundamentals, and main indicators which are essential for market analysis (such as the interaction between rent, vacancy rate, construction, and absorption);
- learn how to valuate direct and securitized real estate to support investment decisions in real estate markets using different valuation techniques;
- understand the use of debt in financing commercial and residential properties as well as the structure and functioning of mortgage markets;
- get to know how to invest in national and global real estate markets, and how to use property derivatives to hedge portfolio risk.

The course aims to provide students with a profound knowledge of financing and investment strategies in direct and securitized real estate markets. Because the course covers the principles of real estate finance and investments, it is suitable for students who wish either to continue their academic career in the field of real estate finance or aim for a position in the real estate industry.

Course structure
The course will be structured according to the following aspects:

- **Real estate markets**: How are markets for space and asset markets interrelated? What are the main indicators needed to analyze real estate markets?
- **Real estate valuation**: How do we value commercial or residential properties? Which techniques do we use to value income properties? How are listed real estate companies being priced?
- **Real estate financing**: What are the typical debt financing instruments? How do we finance residential and commercial properties? What are commercial and residential secondary markets? How to price a mortgage pool and collateralized mortgage obligations?
- **Real estate investments**: What are real estate investment trusts? How can we invest in real estate and which investment vehicles really provide exposure to the property market? How do REITs structure their capital and what is the effect of leverage? What are the financial benefits of green buildings? How can we make use of real estate derivatives to hedge portfolio risk?

Because the aim of the course is to familiarize the students with the basic concepts of real estate finance and investments, it offers tutorials in addition to formal lectures. Students will be graded based on the final exam and four R assignments that will be handed out during the term. A guest lecturer is invited to deliver insights into his/her practical experience.

- **Formal lectures** are given for basics on real estate valuation, finance and investing topics and to provide the theoretical and analytical framework;
- **Tutorials** are provided to practice the topics discussed in lectures;
- **Assignments** are offered to deepen the understanding of the concepts and to enable a more intensive examination of the course contents. The four assignments facilitate further to apply the theoretical knowledge to a specific business situation.
- **Guest lecturers** complete the course by sharing their practical expertise and discussing with the students the latest trends on real estate financing and investing.

### Course literature


### Further Recommended Readings


### Subprime Crisis related Readings

Additional course information
Due to the COVID-19 pandemic, the course is offered in a hybrid setting of in-class and online lectures. The exam will be held on campus. If an exam on campus is not possible, the examination will be held online via StudyNet.

Examination information

Examination sub part/s

1. Examination sub part (1/2)

Examination time and form
Decentral - Written examination (60%, 60 mins.)
Examination time: term time

Remark

Examination-aid rule
Extended Closed Book
The use of aids is limited; any additional aids permitted are exhaustively listed under "Supplementary aids". Basically, the following is applicable:

- At such examinations, all the pocket calculators of the Texas Instruments TI-30 series and mono- or bilingual dictionaries (no subject-specific dictionaries) without hand-written notes are admissible. Any other pocket calculator models and any electronic dictionaries are inadmissible.
- In addition, any type of communication, as well as any electronic devices that can be programmed and are capable of communication such as notebooks, tablets, mobile telephones and others, are inadmissible.
- Students are themselves responsible for the procurement of examination aids.

Supplementary aids

Examination languages
Question language: English
Answer language: English

2. Examination sub part (2/2)

Examination time and form
Decentral - examination paper written at home (individual) (40%)
Examination time: term time

Remark
There are four graded R Assignments

Examination-aid rule
Term papers

Term papers must be written without anyone else’s help and in accordance with the known quotation standards, and they must contain a declaration of authorship which is a published template in StudentWeb.

The documentation of sources (quotations, bibliography) has to be done throughout and consistently in accordance with the chosen citation standard such as APA or MLA.

For papers in law, the legal standard is recommended (by way of example, cf. FORSTMOSER, P., OGOREK R. et SCHINDLER B., Juristisches Arbeiten: Eine Anleitung für Studierende, newest edition respectively, or according to the recommendations of the Law School).
The indications of the sources of information taken over verbatim or in paraphrase (quotations) must be integrated into texts in accordance with the precepts of the applicable quotation standard, while informative and bibliographical notes must be added as footnotes (recommendations and standards can be found, for example, in METZGER, C., Lern- und Arbeitsstrategien, newest edition respectively.

For any work written at the HSG, the indication of the page numbers is mandatory independent of the chosen citation standard. Where there are no page numbers in sources, precise references must be provided in a different way: titles of chapters or sections, section numbers, acts, scenes, verses, etc.

**Supplementary aids**

**Examination languages**
Question language: English
Answer language: English

**Examination content**

Relevant for the exam are the content of the lecture (including slides, assignments, and exercise sets) and the relevant literature.

**Examination relevant literature**

In addition to the lecture notes and readings, course material given in the class and made available on StudyNet will be relevant for the exam.

**Please note**

Please note that only this fact sheet and the examination schedule published at the time of bidding are is binding and takes precedence over other information, such as information on StudyNet (Canvas), on lecturers’ websites and information in lectures etc.

Any references and links to third-party content within the fact sheet are only of a supplementary, informative nature and lie outside the area of responsibility of the University of St.Gallen.

Documents and materials are only relevant for central examinations if they are available by the end of the lecture period (CW21) at the latest. In the case of centrally organised mid-term examinations, the documents and materials up to CW 12 are relevant for testing.

**Binding nature of the fact sheets:**

- Course information as well as examination date (organised centrally/decentrally) and form of examination: from bidding start in CW 04 (Thursday, 28 January 2021);
- Examination information (regulations on aids, examination contents, examination literature) for decentralised examinations: in CW 12 (Monday, 22 March 2021);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 12 (Monday, 22 March 2021);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before the end of the registration period in CW 14 (Thursday, 8 April 2021).