Real Estate Finance (B8331)  
Spring 2021

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Section 001, 8.30 - 10:00AM; Section 002, 10:20 - 11:50AM  
Tuesday/Thursday (On-line), First class: Tuesday, January 12, 2021  
Office Hours: By appointment

Course Overview: Real estate accounts for one third of the capital assets around the world. You simply cannot ignore it in as an investor or in any business, whether the business is called real estate or not! This course provides students with a comprehensive understanding of real estate valuation, cycles, markets, investments, and decision-making, using modern finance and economics tools. The bulk of the course covers income-producing (commercial) property, although we will discuss residential housing as well. This course is not a hodgepodge of vaguely connected methodologies and rules of thumb about real estate. Rather, it uses a unified finance-based framework to answer real estate investment decision-making problems encountered in the real world. Doing so requires a good understanding of the institutional features that differentiate real estate from other asset classes and markets as well as modern finance and economics tools.

The learning in this course will utilize, build on and extend concepts covered in the following core courses:

<table>
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<tr>
<th>Core Course</th>
<th>Connection with Core</th>
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| Corporate Finance       | 1. Time value of money  
|                         | 2. Risk  
|                         | 3. CAPM  
|                         | 4. Modigliani Miller Theorem  
|                         | 5. Arbitrage pricing and the law of one price  
|                         | 6. Efficient Markets  
|                         | 7. Frictions  |
| Managerial Economics    | 1. Maximization and thinking on the margin  
|                         | 2. Analyzing complex decision-making under uncertainty  
|                         | 3. Understanding market competition and equilibrium thinking  |
| Managerial Statistics   | 1. Statistics data analysis  
|                         | 2. Probability intro  
|                         | 3. Conditional probability  
|                         | 4. Modeling uncertainty  |
| Global Economic         | 1. What causes inflation  
| Environment I           | 2. What drives employment  
|                         | 3. What are the causes of business cycle  
|                         | 4. What are the effects of monetary policy  
|                         | 5. What is the role of financial markets in the economy |

Students will be expected to have mastered these concepts and be able to apply them in the course.
Course handouts:  Class notes, readings, and cases will be handed out in class and available on Canvas.

Reference books:
- *Real Estate Finance and Investments: Risks and Opportunities* by Peter Linneman. This book provides background material and context for many of the concepts covered in class.
- *Commercial real estate analysis and investments* by Geltner and Miller, with Clayton and Eichholtz--provides a more detailed coverage and offers more quantitative analysis.

Grading:  Your grade will be determined by assignments including three homework exercises and three cases, two midterm exams, and class participation.

Assignments:  There will be both homework assignments and cases. They jointly account for 60% of your grade. Cases will be completed in groups. The maximal size of a group will be three. Under no circumstances, will I accept any group whose size is larger than 3. It is solely your responsibility to form the group. Homework assignments will be completed individually.

Cases:  You will do three cases. Each case counts 15% towards your course grade.

Homework Exercises:  You will have three homework exercises. Each homework assignment accounts 5% of your course grade.

Assignments should be turned in at the beginning of class on the day it is due. Late assignments will be accepted under no circumstances.

1st midterm:  The first midterm exam covers material for the first half of the lecture. *It is only offered in class. Make-ups are not given unless you have written authorization from the student affairs office.*

2nd midterm:  The second midterm exam covers material from the lectures after the 1st midterm. *It is only offered in class. Make-ups are not given, unless you have written authorization from student affairs office.*

The two midterm exams jointly account for 35% of your course grade. When calculating your course grade, I will choose the larger score based on the following two weights: (i) 25% on the first midterm and 75% on the second midterm; and (ii) 50% on both the first and second midterms. I hope that this will give you incentives to work hard after the first midterm, even if you unfortunately did not perform well on the first midterm!

The readings distributed over the semester are to help you better understand concepts and materials covered in class. Materials only in the readings but not covered in class are not required for the exams. I will be very precise about what you need to know for the exams in the exam review sessions.
Re-grading: All requests for re-grades must be submitted, in writing, within two weeks of my returning the graded homework, case, or the exam. You must submit the entire homework, case, or the exam, along with a detailed description of what you think was scored incorrectly. Before submitting your request, you should carefully examine the posted solutions. Re-grading may potentially lead to a lower grade.

Class Participation: Class participation counts for 5% of your course grade. Please don’t be shy -- Ask questions to clarify what we are discussing or to bring a different perspective in class. The course is cumulative, so being lost gets quite costly very quickly. Constructive comments in class will increase the participation points. Naturally, consistently bad or irrelevant participation will decrease the participation points. Please turn off cell phones etc. Absences or late arrivals will be considered as a factor in class participation. Materials covered by guest lecturers are required.