Syllabus for RE358
Introduction to Real Estate and Urban Land Development

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Class meetings: Monday and Wednesday, 2-3:30PM, CBA 4.330.
Prerequisite: Upper-division standing, and FINANCE 357 or 357H.

1 Course Description

This is a rigorous undergraduate survey course in real estate. The aim of the course is to give you broad exposure to the landscape of real estate markets, from single-family housing all the way to large-scale commercial property, while at the same time introducing you to issues in these markets and teaching you to think about them in a rigorous way, from a finance perspective. The course is part of the core Real Estate curriculum at UT.

After a review of discounting and a discussion of the relationship between property prices and rents, the first part of the course is focused on the large-scale dynamics of urban and regional property markets, acquainting you with how space is traded within a city, the cyclicality of property, and the mechanics of housing and commercial real estate markets. We then discuss property-level analysis of real estate equity as an investment, as well as the fundamentals of real estate debt (mortgages). The final part of the course treats real estate capital markets, namely secondary (securitized) markets for property assets, first equity (with a focus on Real Estate Investment Trusts, REITs), then debt (with a focus on mortgage-backed securities).

Material taught in lectures will be complemented by an introduction to ARGUS, the industry standard application for property valuation, which will then enable you to do a case study on property investment analysis based on real data from an office building.

2 Textbook

Commercial Real Estate Analysis and Investments, by David Geltner, Norman Miller, Jim Clayton, and Piet Eichholtz (ISBN 978-1-133-10882-5); I will be referring to this text as GMCE in reading assignments, which will be posted at the beginning of every set of lecture slides. This book constitutes the required text for the course, and is also a handy reference on many real estate topics, in addition to some basic finance theory. It should be a book you will appreciate having on your shelves for a while if you are working in real estate.
Readings are generally meant to supplement what is taught in lectures and to deepen your understanding of the material. Unless otherwise stated, you will not be responsible for material covered only in the textbook and not in class. Caveat: the material covered in class is of course not limited to the content of the slides, but also includes things that are discussed without being on any slides, and any implications thereof.

I do not expect readings to be done by the time a topic is covered in class. The textbook should be your source for deepening your understanding of the material after I have treated it.

3 The Economic Press

You should make a habit of reading the economic press and thinking about articles that are relevant to the course. Every now and then, I will take a few minutes to discuss such an article in class. Should you wish to draw my attention to such an article, which you believe we should discuss, please feel free to do so. Further, frequently reading the economic press will make it easier to find an article that you will want to treat for your group presentation.

4 Other Course Materials

Lecture slides will generally be made available shortly before class. All assignments will be posted on Canvas.

All electronic materials will be available on Canvas. Use Canvas as your primary resource for all electronic materials for the course.

5 Course Requirements and Grading

As an overarching requirement, you should have absolutely no expectation of keeping up with the course, unless you devote at least the same amount of time outside of class reviewing the material and reading the textbook, as we spend in class discussing it. This time must be spent in addition to the time necessary for doing projects and assignments, as well as final preparation for each exam. Students for whom it becomes apparent that they are not putting forth this level of effort will be refused help in office hours when seeking extra help, and may lose points on the professional conduct portion of their participation score, as such behavior clearly disrespects the professor’s time and resources.

Each element of the course has the following points value:

- Class Participation and Attendance 3%
- ARGUS workshop, attendance and output 2%
- Proforma Case 10%
- Group Presentation 5%
- Other three homeworks 5% each (i.e. 15% combined)
- Midterm examinations (2) 15% each
- Final examination (cumulative) 35%

I will compute the grade for each midterm as

\[ \text{midterm}_n = \max (\text{midterm}_n, \text{final}) \]

This can only work in your favor; it means you get a free option. As you will see in the course, you won’t see many of these in your life. Please notice that at my office hours I will give priority to students who attend class on a regular basis and who turn in homework.

There is no opportunity to do extra credit work in this course. Your score for the course will be determined only by the requirements above and by the quality output produced for each.
Your final grade will be determined by where your overall score for the course lies in relation to that of your classmates. The final cutoffs between letter grades will be determined by the shape and position of the course distribution.

**Exams**  The two midterm exams will be given during class time on the following dates, in the normal class location:

- Midterm 1: Monday, February 17.
- Midterm 2: Wednesday, March 19.

The final exam will take place on the date scheduled by the registrar’s office. Most likely, this will be Wednesday, May 7, from 9 AM to 12 Noon. However, as you know this is subject to change.

Please bring a photo ID (preferably your student ID) to each exam.

The first midterm covers the material studied up to that point. The second midterm covers the material studied between the first and the second midterm. The final exam is cumulative, covering the material from the entire course.

The exams will test your critical understanding and your ability to apply the material. Rote-level memorization will in most cases be unnecessary, and will certainly not get you very far in solving questions. The latter can also be said for the use of a calculator.

The position of the exams in the course outline are approximate indications of where within the material, exams will fall. However, final determination of the scope of each exam will be made before each exam, based on our progress.

**Important!**  You must take all exams at the date, time, and location for which they are scheduled. No alternative exam dates or make-up exams will be given, except in family or medical emergencies. In such cases, you must get approval from the Student Emergency Services office and I must be informed of your circumstances by the start of the exam at the latest.

Do not schedule job interviews during exams. Should it be unavoidable to do this, however, the following will apply:

- You must submit evidence from the firm (on the firm’s letterhead) with which you are interviewing that you have an interview scheduled for the time of the exam, and that no other interview time was available. This must be done at least 24 hours before the start of the exam.
- You will *not* be given a make-up test. Instead the average score of your other two exams will be used for the missed exam.

*All deadlines are final.*

**ARGUS Workshop**  I will conduct an evening workshop to teach you ARGUS, which you will then need to use for the proforma case. The workshop will take place **Tuesday, March 4th, from 7 to 9 PM, in the FTTC**. This will be your only opportunity to learn enough ARGUS to solve the case. **Attendance at this workshop is mandatory and will contribute to your course grade.**

**Assignments**  You may work on problem sets in groups of no more than three. Should you elect to work on homework in such a group, you may hand in a single sheet for the entire group (with up to three names on it), rather than three identical pieces of work. On the other hand, if two identical or extremely similar sheets are submitted and illegal cooperation is thus suspected, this will be treated as scholastic dishonesty.

Working in a group will be mandatory for the case; there will be a formal group signup later in the semester, to form groups of about six.

All assignments are due at the beginning of class on the due date. Assignments submitted after this time will be considered late and will generally not be accepted.
**Group Presentation**  For the group presentation, you will be asked to critically analyze an article from the economic press and prepare a presentation of this analysis, which will include slides as visual aids. These presentations will take place the final week of classes.

**Writing Eloquently**  It is absolutely essential that anything you submit be written eloquently and correctly, in excellent, formal business English. The write-up of your ARGUS project will be assessed for quality of writing, among other factors. Further, you will need to give written responses to exam and homework questions; there will be no multiple choice. This means that if you lack the ability to write clearly and correctly, this will severely affect your performance in this class (as it will in the business world). The University has writing tutor services available, should you want to increase your comfort level in this respect.

**Taking Notes**  There will be plenty of material in the course that is covered in class and that is not pre-printed in the slides. This includes things for which I use the board, but also things which I simply speak about. You are responsible for all of this material, in whatever form it is delivered. By now, you should know how to take good notes in a class. If not, please seek help on this, also from writing tutors.

**Attendance and Participation**  Note that a part of your grade is based on participation so participation is definitely an integral part of the course. While class attendance will not be taken, it should be clear that you must be present to participate... I will keep a record of who makes meaningful contributions during each class meeting. If you make such a contribution, please be sure to stop by at the end of class to ensure you are on my list.

If you must miss a class it is your sole responsibility to find out what was done that day, including administrative announcements. I will not catch you up! Do not make inquiries to me about material you missed in a class you did not attend. This is unprofessional and will negatively impact your participation grade.

**If you must leave a class early, please let me know before the beginning of class.** Leaving in the middle of class without having advised me of your need to do this will undo any positive standing you may have worked for hard throughout the rest of the semester by actively participating.

**McCombs Professionalism Policy**  The highest professional standards are expected of all members of the McCombs community. The collective class reputation and the value of the program’s experience hinges on this.

Faculty are expected to be professional and prepared to deliver value for each and every class session. Students are expected to be professional in all respects. Email and Internet are not allowed during lectures. Mobile phones and other electronic devices have to be switched off during class at all times. The Texas classroom experience is enhanced when:

- Students arrive on time. On time arrival ensures that classes are able to start and finish at the scheduled time. On time arrival shows respect for both fellow students and faculty and it enhances learning by reducing avoidable distractions.

- Students display their name cards. This permits fellow students and faculty to learn names, enhancing opportunities for community building and evaluation of in-class contributions.

- Students minimize unscheduled personal breaks. The learning environment improves when disruptions are limited. Should you have to leave class early, please have the courtesy of letting the instructor know before the beginning of the period and leave quietly so as not to disturb the other members of the class.

- Students are fully prepared for each class. Much of the learning takes place during classroom discussions. When students are not prepared they cannot contribute to the overall learning process. This affects not only the individual, but their peers who count on them, as well.
• Students attend the class section to which they are registered. Learning is enhanced when class sizes are optimized. Limits are set to ensure a quality experience. When section hopping takes place some classes become too large and it becomes difficult to contribute. When they are too small, the breadth of experience and opinion suffers.

• Laptops are closed and put away. When students are surfing the web, responding to e-mail, text messaging each other, and otherwise not devoting their full attention to the topic at hand they are doing themselves and their peers a major disservice. Those around them face additional distraction. Fellow students cannot benefit from the insights of the students who are not engaged.

• Phones and wireless devices are either off or completely on silent mode. Any student text-messaging or emailing during class will be asked to leave the class. We’ve all heard the annoying ringing in the middle of a meeting. When a true need to communicate with someone outside of class exists (e.g., for some medical need) please inform the professor prior to class.

I also expect that written and oral communication with the instructor or the TA take place in a professional manner:

In your written communications with the instructor or TA, professional conduct requires the use of a level of formality appropriate to the business world. This means messages must include a salutation, a body, and a closing. Cryptic messages containing text message abbreviations or beginning with, for example, “Hey” will be considered unprofessional. The same is the case for asking the professor or TA a logistical question that was already answered in any of the written course material, or during in-class announcements.

Litmus test: Ask yourself, “Do my actions disrespect the time, ideas, or efforts of others?” If the answer is “No”, then ask yourself, “Am I presenting myself in the best way possible?” If the answer to this is “Yes,” then you are probably behaving professionally. If not, you will want to reevaluate your actions.

Your professionalism both in- and outside the classroom with respect to the course and instructor will contribute to your participation grade. If appropriate, negative scores in the participation grade are possible.

Calculator A financial calculator capable of computing present value and rates of return of unequal cashflow series will be required for class meetings and exams. I will be using a Texas Instruments BA-II Plus but it is not necessary for you to have the same calculator. It is your sole responsibility to understand how to make the correct inputs on your specific calculator. Please bring your calculator to each class, as this way you will be able to work through in-class examples. Also note that as used in this class, your calculator will not be a replacement for reasoning and problem solving skills.

6 More Terms and Conditions

Mobile phones or computers of any kind (except your financial calculator) are not allowed in class. If you have such a device with you in class, it must be off and in your bag at all times while class is in session. Failure to comply with this will be considered disruptive behavior and result in expulsion from a particular class session.

Emergencies requiring Course Accommodations If you encounter an emergency for which you would like to request an accommodation, please report this to UT’s Student Emergency Services (http://deanofstudents.utexas.edu/emergency/index.php). This office will assess your situation and request appropriate accommodations for you.

Students with Disabilities Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 512-471-6259, http://www.utexas.edu/diversity/ddce/ssl/.
Religious Holy Days  By UT Austin policy, you must notify me of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

Policy on Scholastic Dishonesty  The McCombs School of Business has no tolerance for acts of scholastic dishonesty. The responsibilities of both students and faculty with regard to scholastic dishonesty are described in detail in the BBA Program’s Statement on Scholastic Dishonesty at http://www.mccombs.utexas.edu/BBA/Code-of-Ethics.aspx. By teaching this course, I have agreed to observe all faculty responsibilities described in that document. By enrolling in this class, you have agreed to observe all student responsibilities described in that document. If the application of the Statement on Scholastic Dishonesty to this class or its assignments is unclear in any way, it is your responsibility to ask me for clarification. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since dishonesty harms the individual, all students, the integrity of the University, and the value of our academic brand, policies on scholastic dishonesty will be strictly enforced. You should refer to the Student Judicial Services website at http://deanofstudents.utexas.edu/sjs/ to access the official University policies and procedures on scholastic dishonesty as well as further elaboration on what constitutes scholastic dishonesty.

Campus Safety  Please note the following recommendations regarding emergency evacuation from the Office of Campus Safety and Security, 512-471-5767, http://www.utexas.edu/safety:

- Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.

- Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.

- Students requiring assistance in evacuation should inform the instructor in writing during the first week of class.

- In the event of an evacuation, follow the instruction of faculty or class instructors.

- Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.

- Behavior Concerns Advice Line (BCAL): 512-232-5050

- Further information regarding emergency evacuation routes and emergency procedures can be found at: http://www.utexas.edu/emergency.
7 Course Outline

1. Time-Value of money.
   - Review of discounting.
   - The relationship between rents and prices. The GGM and Cap Rates.

2. What determines Rents and Prices?
   - General Supply/Demand arguments and the Four-Quadrant Model.
   - Central Cities and Economic Base Theory.
   - The Monocentric Model.
   - Market Analysis: Residential and Commercial Property.
   - Homework on the material in this unit.

Midterm 1, Monday, 2/17, in class.

3. Financial Analysis (Equity Side).
   - More DCF (risk, discount factors).
   - Determining Cap Rates, comps.
   - Proformas.
   - **ARGUS workshop, Tuesday 3/4, 7-9 PM, FTTC.**

4. Mortgages.
   - The effects of leverage on property investments.
   - Basic mechanics and terms, mortgage types, commercial versus residential.
   - Mortgage calculations: financial calculator and spreadsheets.
   - Convertible Mortgages and Participation Mortgages.
   - Problem set on mortgages.

Midterm 2, Wednesday, 3/19, in class.

5. Real Estate Capital Markets and Securitized Real Estate.
   - Forms of Property Ownership.
   - REITs.
   - Secondary Mortgage Markets.
   - Homework on Real Estate Capital Markets.

**Final Exam:** cumulative, with slight overweight in the material covered after the second midterm.