RE420: URBAN AND REGIONAL ECONOMICS

(Real Estate/Economics/Urban and Regional Planning)

Lectures 1, 2, and 3

Spring 2019

GENERAL INFORMATION

Instructor: Yongheng Deng
Office: Grainger 4110
Office hours: M, W 3:45 pm – 4:30 pm or by appointment
Email: yongheng.deng@wisc.edu
Lectures: Lecture 1: M, W 11:00 am – 12:15 pm, Grainger 1280
        Lecture 2: M, W 1:00 pm – 2:15 pm, Grainger 1295
        Lecture 3: M, W 2:30 pm – 3:45 pm, Grainger 1280

TA: Jongpil Ryu
TA office hours: to be announced
TA Email: jryu43@wisc.edu

COURSE PREREQUISITE

Economics 101
**Course Description**

Urban economics is the study of cities, of the economic activities therein, and the determinants of those activities. Development in the urban and real estate sector can often be a reflection or manifestation of broader societal issues; for instance, rising house prices can trigger debates about wealth inequality, and the same sort of technological innovation now reshaping the world of urban development and real estate market. The real estate related financial capital markets are nurturing entrepreneurship and economic gains in the region and across the globe. The green technology is fostering healthy urban lifestyles and sustainable urban environments.

The urban economics brings together tools developed in the broader fields of economics such as micro- and macro-economics, econometrics and statistics, labor economics, financial economics, public economics, and economic policy studies, etc. By utilizing these tools, we can analyze social issues relating to urban society, such as housing price and affordability, urbanization and migration, demographic shifts and aging, education, labor participation, crime, segregation, congestion and pollution, smart and innovative cities, environmental sustainability and socially responsible development.

In this semester, our goal is to guide the students to take a holistic view of the urban and housing economics, and to understand why there are many problems in urban areas, and how we may try to fix these problems.

Students are expected to learn how to apply economic principles and tools to analyze urban phenomena and find solutions to urban problems.

**Learning Outcomes**

In this course, students will:

- Learn stylized facts about cities, their sizes and locations, and their contributions to economic and social development
- Understand the demand and supply for housing and urban space
- Understand why space and location matter
- Understand the role of agglomeration and the city growth
- Understand the determinants of housing and land prices
- Understand housing and land price measurement
- Understand the housing tenure choice: buy (or invest) vs. rent
- Understand the impact of government regulations on urban development and welfare
- Learn why socially responsible and environmentally sustainable urban development is a big challenge in the US and around the world
- Learn challenges and opportunities in international housing and real estate markets
TEACHING AND LEARNING

The goal of a college education is to encourage students in critical thinking. Therefore our goal is to create an active learning environment in class instead of teaching as telling. Students learn more when instructors engage them and give them opportunities to think about the materials in class. If the students connect the dots on their own, they will remember it.

COURSE MATERIALS

There is no textbook for this course.

One homework assignment is to write an essay based on chapter 2 “Why Do Cities Decline?” of Triumph of the City


I also recommend following books for those who are interested in getting a little more depth on the material seen in class.


For selected modules students will be instructed to download relevant cases (with a fee) from online stores (such as Harvard Business Cases https://hbr.org/store/case-studies)

COURSE WEBSITE

All class material will be put on the Canvas website (https://canvas.wisc.edu/courses/128782). I will also put a PDF copy of the lecture note on the Canvas website after each class. Students are expected to be familiar with the functioning of this website. Every student must update his/her information and upload a picture as soon as possible.
MAIN TOPICS AND GROUP PROJECTS

1. **Introduction to Urban Economics**
   - The demand and supply for housing and urban space
   - The elasticity of supply and demand for housing and land
   - Urban real estate market and the macro-economy

2. **Housing Market and Policy**
   - Determinants of housing and land prices
   - House price measurement (I): hedonic house price index
   - House price measurement (II): repeated-sales house price index
   - Housing investment, speculation and bubbles

3. **Sustainable Development for Real Estate and Urban Cities**
   - The United Nations Sustainable Development Goals
   - Doing Well by Doing Good – An Analysis of Green Office Buildings

4. **International Real Estate Market**
   - Evaluating the risk of Chinese housing markets: what we know and what we need to know
   - The public housing in Singapore: the housing and development board (HDB)
## Session Schedule

Note: The topics and dates for the class may change throughout the semester – please refer to the course calendar on Canvas for most up-to-date timeline and materials.

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<td>The demand and supply for housing and urban space (I)</td>
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<td>Introducing DiPasquale and Wheaton’ four-quadrant (4Q) model of real estate markets</td>
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<td>Determinants of housing and land prices (I): The Kain and Quigley Model</td>
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<td>03.06.2019</td>
<td>Federal Reserve Board Guest speaker on US housing and finance market</td>
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<td>Dr. Karen Pence, Assistant Director of Research and Statistics</td>
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<td>Spring Recess, No Classes</td>
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| 03.25.2019 | City of Madison Guest Speaker on City of Madison Sustainable Development  
Jeanne Hoffman, Facilities and Sustainability Manager, Engineering Division |
| 03.27.2019 | Introducing the CoStar database                                      |
| 04.01.2019 | CoStar Guest Speaker on CoStar data and green building                 
 Angela Hoehnen, Senior Client Relationship Manager, CoStar Group       |
| 04.03.2019 | WHEDA (Wisconsin Housing and Economic Development Authority), and Dominion Properties Guest Speakers on Wisconsin Housing and Economic Sustainable Development  
 Stuart Kuzik, WHEDA Director of Business and Community Engagement, George Petak, WHEDA Senior Business and Community Engagement Officer, Mike O’Connor, Principal, and CEO, Dominion Properties, and Christopher Adams, Principal, and CTO, Dominion Properties |
| 04.08.2019 | Introduction to Sustainable Development                                
 Assignment 3 due                                                        |
| 04.10.2019 | Doing Well by Doing Good – The Economics of Energy Efficiency in Property Markets |
| 04.15.2019 | Evaluating the risk of Chinese housing markets: what we know and what we need to know (I) |
| 04.17.2019 | Evaluating the risk of Chinese housing markets: what we know and what we need to know (II) |
| 04.22.2019 | Student group presentation                                           |
| 04.24.2019 | Student group presentation                                           |
| 04.29.2019 | The public housing in Singapore: the housing and development board (HDB)  
 Group project PPT and Final reports due                                  |
| 05.01.2019 | Final review                                                          |
| 05.10.2019 | Final Exam (5:00 pm – 7:00 pm)                                        |
GROUP PROJECT

During the second half of the semester (right after the spring recess) students will be formed into small groups (of five students) to work on a group project. The group project will focus on the topic of sustainable development in commercial or residential real estate industry or urban city development. There will be lectures, guest speakers, reading materials, online video materials and case studies, helping students to get familiar with the issues.

For students to develop their leadership, communication, and skills, I require students to write an essay on sustainable development in commercial or residential real estate industry or urban city development, and then present in front of their classmates their main findings.

ESSAY: I will sort students in small groups and expect them to produce an essay of at least seven pages. The style for the final draft is New Times Roman, 12 points font size, and double space (align text to both left and right margins!). The head of the draft should contain: a) Title of the paper, and b) Name of students in the group.

The essay should also include a 100-word or less abstract that is readable by the layperson. The abstract should be understandable and independent of the rest of the paper. It should describe the data and methodology used and highlight the key results.

Tables and figures should number consecutively and label clearly. Symbols and abbreviations in the tables and figures should be defined clearly. Each table and figure should include an explanatory paragraph which should fully explain the table or figure so that the reader need not refer to the text.

Citation of other work in the text should include both author and date, for example, Cox (2000). A reference page should be placed at the end of the article under the heading Reference. Conforming format of the reference examples are:


PRESENTATION: In the presentation, the students have to briefly summarize their main findings, explain what they have learned and found most interesting, and formulate one question to their classmates. This question will be part of the material that all students must study for the final exam. The person/group that presents a paper is responsible for answering all questions from their classmates not only during their presentation but also at any time during the semester.

The first and final drafts of the essay and presentation must be posted on our course website before the
corresponding deadlines (announced in class). Failure to follow any of these rules will result in a loss of at least 30 points.

The grades of the essay and presentation will also reflect the classmate evaluations and the group peer evaluations. A student who is in class but does not submit his/her classmate evaluation form (or submits the evaluation but is incomplete) will suffer a penalty that will affect his/her participation grade. In the case that you present the paper with other students, you must also submit your group peer evaluation form no later than the day of your presentation. Otherwise, you will suffer a penalty.
**Structure of Midterm and Final Exams**

In the exams, there will be questions about the research papers presented in class and also long and short/multiple-choice questions about the material seen in class. For the long questions, a good answer must have the following four elements: 1) Assumptions (and model if it is relevant); 2) Economic intuition; 3) Numerical example or intuitive figures; 4) Supports of theoretical arguments with empirical facts. I believe that this type of exams will help students in their future professional careers, by giving them some experience on how to write reports by summarizing the main economic ideas and facts. Also, this type of exam (and the preparation for the exam) will improve students' writing skills. Many employers tell the faculty that writing skills are an important consideration in their hiring decisions.

**Class Attendance and Participation**

Class attendance is mandatory, and more than five absences will count against you.

In addition to the lectures, there will be student presentations and discussions. I expect all students to be present in every class and participate with questions during their peer presentations.

I also expect students to be actively engaged in learning throughout the course and to be proactive in seeking any assistance that may be necessary. This means that students should take full advantage of office hours, class discussions and other activities throughout the course. Also, the student should participate in class, with questions during the lectures, debates, and other students' presentations. To encourage active participation, I will give 5 points (out of 100) to those outstanding students that actively participate in class.

**Grading**

I will grade students using the scale 0-100. Conversion of final grading to letter grades will follow the School of Business’ guidelines: "For all […] undergraduate courses with class numbers below 600 and 15 or more students enrolled, the mean grade should be no higher than 3.3 and the maximum percentage of A’s is 30%." The final grade is computed using the following weights:

- 5% active participation
- 15% assignments
- 15% midterm
- 30% final exam
- 35% group project on sustainable development, of which:
  - 10% presentation (classmates’ evaluation)
  - 5% jury and group peers’ evaluation
  - 20% quality of the group essay
WEB RESOURCES

There are a few separate websites that you'll want to know if you're taking real estate courses.

1. The Library's Electronic Reserves Page. This site is only accessible from your UW student account at DOIT (http://my.wisc.edu). Go to your "Academics" page for a connection to library resources for your registered courses. This is where you'll find many of the course readings, downloadable in Adobe Acrobat's PDF format.

2. The Real Estate Department's home page, which is accessible to anyone on campus or off (http://www.bus.wisc.edu/realestate). This site contains basic information about the program, links to data sources, etc.

3. The UW Writing Center (http://www.wisc.edu/writing). The Writing Center, on the 6th floor of Helen C. White Hall, offers free short courses to help you improve your writing skills. Many employers tell the faculty that writing skills are an important consideration in their hiring decisions and a writing course can help you with your writing. Stop by the Center or check out their web site.

4. The UW-Madison Real Estate Club (http://www.realestateclub.org). I advise all of you to consider joining the club seriously. Or, just go to a meeting and see what it is all about. I think early exposure to your colleagues (junior and senior) and potential business partners is potentially an enormous benefit to your future career and enjoyment of the study and practice of real estate.
RULES, RIGHTS & RESPONSIBILITIES

ACADEMIC INTEGRITY

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison’s community of scholars in which everyone’s academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to studentconduct.wiscweb.wisc.edu/academic-integrity/.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student’s educational record, is confidential and protected under FERPA. http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php

DIVERSITY & INCLUSION

Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world. (https://diversity.wisc.edu/)