WISE

厦门大学王亚南经济研究院

WANG YANAN INSTITUTE FOR STUDIES IN ECONOMICS XIAMEN UNIVERSITY

Master and PhD Programs Course Brochure 2013

Wang Yanan Institute for Studies in Economics

Xiamen University

December 2013

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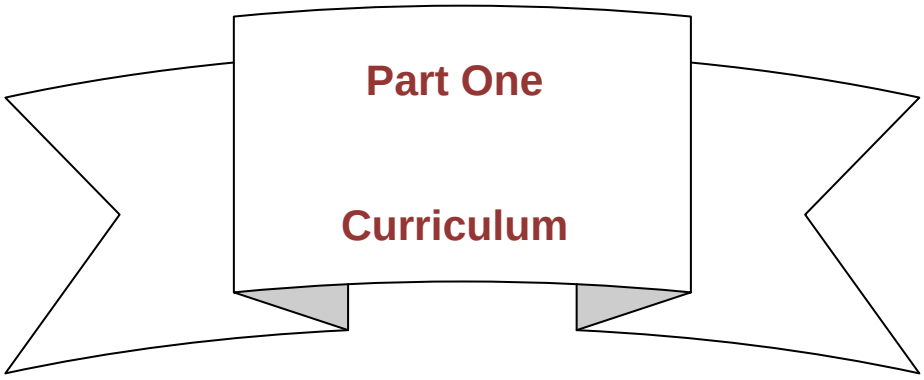
Note:

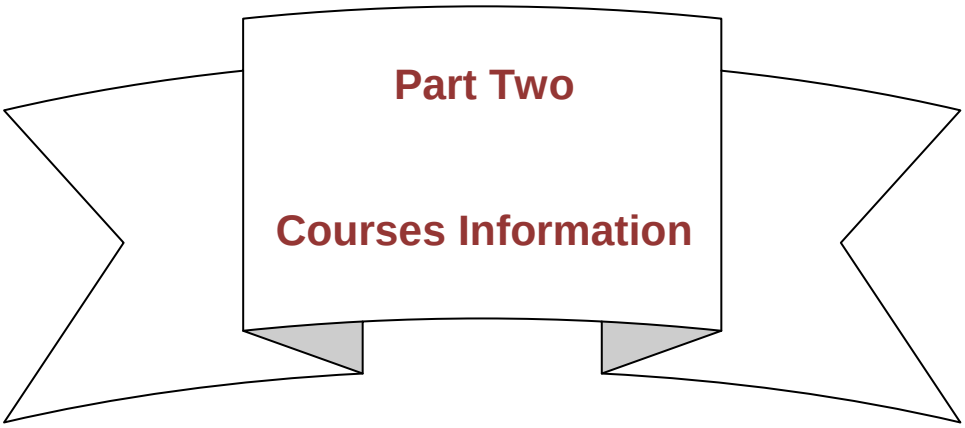
1. The courses in this brochure are mostly taught in English. A few courses taught in Chinese are marked.
2. Normally, each course credit requires 16-18 credit hours.
3. In the curriculum, the course type notation "C" stands for compulsory courses and “E” for elective courses.


Part One
Curriculum

Master and PhD Programs

Course Name	Course Type	Credit
1st Year		
Fall Semester		
Advanced Macroeconomics Ⅰ	C	3
Advanced Microeconomics Ⅰ	C	3
Advanced Econometrics Ⅰ	C	3
Mathematical Economics	C	3
Spring Semester		
Advanced Macroeconomics Ⅱ	C	3
Advanced Microeconomics Ⅱ	C	3
Advanced Econometrics Ⅱ	C	3
Foundations of Finance	C	3
2nd Year		
Fall Semester		
Applied Nonparametric Econometrics	E	2
Advanced Topics on Macroeconomics and Finance Ⅰ	E	2
Micro-Econometrics	E	2
Professional Writing and Oral English(Master)	C	2
Time Series Analysis (Ⅰ)	E	2
The Chinese Economy: Transitions and Growth	E	2
Applied Microeconomics	E	2
Game Theory and Experimental Economics	E	2
Advanced Topics in Finance	E	2
Spring Semester		
Financial Econometrics	E	2
Time Series Analysis：Theory with Application (II)	E	2
Asset pricing	E	2
Urban Economics	E	2
Industrial Organization	E	2
Law and Economics	E	2
Thesis Writing & Master Opening report	C	2
Professional English Writing(PhD)	C	2
Advanced Topics on Macroeconomics and Finance Ⅱ*	E	2
Financial Statement Analysis	E	2

Courses marked with *: opens once in every two years


Part Two
Courses Information

Fall Semester

1. Advanced Macroeconomics Ⅰ

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Instructors:
Yu ZHANG
Reference Book:
Advanced Macroeconomics, 3rd edition, by David Romer
Course Description:
This course is designed for the first-year graduate students. And we study both the major *models* and the *dynamic optimization methods* in modern macroeconomics. Its goal is to make the students get prepared for the more advanced courses and research in macroeconomics and monetary economics. And the course will be taught in English. Since this is a one-semester course, we cannot cover all the *models* in modern Macroeconomics. Hence, we focus on models in the most important fields: growth theory and economic fluctuation. To be more specific, we will analyze the following models in detail: Solow Model, Ramsey-Koopmans-Cass (RCK) model, Overlapping-Generations Model, Real-Business-Cycle Model and New-Keynesian Model. *Dynamic Optimization methods* are the necessary tools for modern macroeconomics. We will give an introduction on *calculus of variation* (for continuous-time optimization) and *dynamic programming* (for discrete-time optimization)

2. Advanced Microeconomics Ⅰ

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Instructors:
Jason Shachat
Reference Book:
➢ Varian, Hal, *Microeconomic Analysis*, Third Edition, ➢ Geoffrey A. Jehle and Philip J. Reny, *Advanced Microeconomic Theory* ➢ Mas-Collel, Winston, and Green, *Microeconomic Theory* ➢ Kreps, Daivd, *Microeconomic Foundations I: Choice and Competitive Markets* ➢ Nicholson, Walter and Christopher Snyder, *Microeconomic Theory: Basic Principles and Extensions*
Course Description:
To introduce the fundamental concepts of Microeconomic models of firms, consumers, decision making under uncertainty, competitive markets, and general equilibrium

3. Advanced Econometrics Ⅰ

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Calculus, Linear Algebra.
Instructors:
Ming LIN
Reference Book:
➢ Lecture Notes on Probability and Statistics Theory for Economists, Yongmiao Hong. ➢ Statistical Inference, Casella, G. and Berger, R. L. Duxbury Press, 2002.
Course Description:
This course is offered to the first-year graduate students. This course introduces the probability and statistics theory, which provides necessary mathematical tools for modeling uncertainty and performing quantitative analysis in econometrics. At the end of the course, students are expected to get the knowledge of random variables, distributions, estimations, and hypothesis testing. They should understand the ideas and methods used in developing the probability and statistics theory, a get the skills of performing statistical analysis.

4. Advanced Topics on Macroeconomics and Finance Ⅰ

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Yufei YUAN
Reference Book:
➢ Kehoe, Timothy J. (1989). "Intertemporal General Equilibrium Models," in Frank H. Hahn, ed., The Economics of Missing Markets, Information, and Games, New York: Oxford University Press, pp. 363-393. ➢ Heer, Burkhard and Alfred Maußner (2005) "Dynamic General Equilibrium Modelling- Computational Methods and Applications, " Berlin: Springer. ➢ Maurice Obstfeld and Kenneth S.Rogoff (1996). "Foundations of International Macroeconomics," MIT Press Books, The MIT Press, edition 1, volume 1 ➢ B. M. Friedman and F. H. Hahn (ed.) (1990)."Handbook of Monetary Economics," Handbook of Monetary Economics, Elsevier, edition 1, volume 1, number 1. ➢ Michael Woodford (2003).\Interest and Prices: Foundations of a Theory of Monetary Policy," Association of American Publishers.
Course Description:
This course will attempt to cover a wide range of related topics central to modern macroeconomics. The material covered will include purely technical developments used in modern macro analysis, and of course, empirically motivated papers. I will also attempt to cover the fundamental knowledge of computational skills students need to be familiar with. The other purpose of this class is to train the students in presentations, paper readings and writings. Hence each section includes both the lectures of the instructor and the presentations of the students.

5. Applied Microeconomics

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

Instructors:

Kailing SHEN

Reference Book:

- Handbook of Labor Economics, Vol 3A, Orley C. Ashenfelter and David Card, Chapter 23, Empirical Strategies in Labor Economics, by Joshua D. Alan B. Krueger (http://www.irs.princeton.edu/pubs/pdfs/401.pdf)
- Microeconometrics: Methods and Applications, by Cameron and Trivedi 微观计量经济学方法与应用,科林-卡梅隆, 普拉温-特里维迪，机械工业出版社
- Mostly harmless econometrics: an empiricist's companion, Joshua D. Angrist and Jörn-Steffen Pischke Princeton and Oxford: Princeton University Press
- Benjamin, Gunderson and Riddell, Labour Market Economics
- Borjas, Labor Economics

Course Description:

This course is based on the entire econometric tools you have studied in the first year, but will not teach theoretical econometrics, instead, we will learn, conditional on the available data, how to choose the most powerful/appropriate econometric tools to "tell an empirical story". In other words, this course will bring students to the frontier of applied microeconomics. We will mainly study the usage of various identification strategies by discuss journal articles. Students' active participation in the discussion is strongly expected.

6. Advanced Topics in Finance

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Guojin CHEN
Reference Book:
➢ John Cochrane, *Asset Pricing*, Princeton University Press, revised ed.,2005 ➢ John Campbell , Andrew Lo and Craig MacKinlay, *The Econometrics of Financial Markets*, Princeton University Press,1997.
Course Description:
This course will review the classical asset pricing theory in discrete time, cover the empirical puzzles, and then will discuss the recent theories that have been developed to try to solve the puzzles. The purposes of this course are to introduce some advanced topics in finance to students as well as to give students some basic training in reading and writing.

7. Applied Nonparametric Econometrics

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

Instructors:

Zongwu CAI

Reference Book:

- Conover, W.J. (1971). Practical Nonparametric Statistics, 2nd Edition. John Wiley & Sons, New York.
- Fan, J. and I. Gijbels (1996). Local Polynomial Modeling and Its Applications. Chapman and Hall, London.
- Fan, J. and Q. Yao (2003). Nonlinear Time Series: Nonparametric and Parametric Methods. Springer-Verlag, New York.
- Li, Q. and J. Racine (2007). Nonparametric Econometrics: Theory and Practice. Princeton University Press, Princeton.
- Serfling, R.J. (1980). Approximation Theorems in Mathematical Statistics. John Wiley & Sons, New York.

Course Description:

This is the graduate level of advanced econometrics with ideas, theories and applications. Here, our focuses are on both the rigorous THEORIES and SKILLS of analyzing real data using nonparametric methods, in particular on implementation using R, a powerful and popular statistical software. The so-called nonparametric econometrics is referred to using econometric/statistical techniques that do not require a researcher to specify a functional form for an object being estimated. Rather than assuming that the functional form of an object is known up to a few unknown parameters, we shall substitute less restrictive assumptions such as existence and smoothness for the assumption that the parametric form of, say, a density function is known and equal to, say, the univariate normal distribution. Of course, if there is some prior knowledge about the functional form of the object of interest up to a few unknown parameters (say, the mean and variance), then it would be better to use parametric techniques. However, in real applications, these forms are rarely if ever known, and the unforgiving consequences of parametric misspecification are well known and are not repeated here.

Lectures will provide details on ideas, methodologies, theoriesand applications. In particular, the theoretical results will be derived in a rigorous way and the computer code for applications will be provided as well as all results will derived under both iid setting and time series contexts. Applications include using nonparametric methods to recover the drift and diffusion functions in Black-Scholes model, to forecast the inflation rate, interest rate and exchange rates, to estimate the frontier production function, and to test if a jump diffusion model is appropriate for a specific financial asset, and so on so forth. There is no a single

8. Game Theory and Experimental Economics

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Jason Shachat
Reference Book:
Course Description:
There are four primary objectives in this course. First is the exposure to key literatures and results in experimental economics and behavioral game theory. Second is the development of the ability to critically read research papers and to identify open questions that can form the basis of new research topics. Fourth is the development of academic writing and presentation skill. The final objective is the development of the basic skills to formulate and conduct an experimental research project. Beyond the topics of the course, its mission is to help the transition from student to researcher.

9. Micro-Econometrics

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Cheng Hsiao
Reference Book:
A.C. Cameron and P.K. Trivedi (2005), *Microeconometrics*, Cambridge University Press.
Course Description:

10. Mathematical Economics

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Instructors:
Yu REN
Reference Book:
Mathematics for Economists, First Edition, by Carl P. Simon and Lawrence Blume ISBN 0-393-95733-0
Course Description:
This course is designed to introduce to a wide range of mathematical techniques used in graduate level economics courses. Topics include the tools used to analyze equilibrium models, comparative-static models, optimization and dynamic models. Although there is a review for basic calculus and linear algebra, these skills are required to take this course.

11. Professional Writing and Oral English

Targeted Programs:
Second year students
Course Type:
Compulsory(Master), Elective (PhD)
Prerequisite:
Instructors:
David Goodweather
Reference Book:
Course Description:
Writing examines a focus on the foundations of different styles, methodologies, voices, syntax, structures and grammar of English writing. This includes an overview of multilingual curricula with a general focus on terminology for linguistically responsive instruction and assessment techniques. Participation is expected as well as being in proper attendance. Being a writing course, everyone is highly advised to participate in all writing activities. Various coursework including homework, in class assignments, attendance, effort and a final exam paper will also be calculated for a final note.

12. Time Series Analysis (Ⅰ)

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Haiqiang CHEN
Reference Book:
Time Series Analysis, James D. Hamilton, 1994.
Course Description:
This is an introductory course to time series analysis. Methods are hierarchically introduced .starting with basic concepts and terminologies, progressing to different data analysis, and ending with different modeling and inference procedures. The course material will cover stationary/nonstationary, linear/nonlinear time series analysis. After this course, students are expected to learn the knowledge and skills needed to do both theoretical and empirical research in fields operating with time series data sets.

13. The Chinese Economy: Transitions and Growth

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Lei MENG
Reference Book:
Naughton, Barry. 2007. *The Chinese Economy: Transitions and Growth*. Cambridge, Mass.: The MIT Press**.**
Course Description:
This course provides a general survey of the Chinese economy. Building from the ground up, it covers first the geographical endowments, the traditional Chinese economy, the socialist legacies and the market transitions; it then moves into the reform era and focuses on the pattern of economic growth, structural change and development since the late 1970s.The specific sectors in the Chinese economy are examined last, covering selected topics in rural and urban economy, the international trade and foreign investment, macroeconomics and finance.

Spring Semester

1. Advanced Topics on Macroeconomics and Finance Ⅱ

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Linlin NIU
Reference Book:
➢ John H. Cochrane, Asset Pricing (Revised), 2005, Princeton University Press. Chapters 1-4. ➢ Suresh Sundaresan, Fixed Income Markets and Their Derivatives, Third Edition. Elsevier. 2009. Chapter 1-13. (Classes 6 – 12)
Course Description:
Term structure of interest rates, or equivalently the yield curve, illustrates the relationship between interest rates and time to maturities, i.e. the remaining time until a bond expires. At the short end of the yield curve, the short term interest rate is closely related to monetary policy, which reacts to macroeconomic fundamentals such as inflation and growth. In equilibrium, long term interest rate is weighted expectation of future short term interest rates adjusted by risks and risk compensation. Moreover, the treasury yield curve provides a benchmark for interest rates, upon which asset of different risk characters and derivatives based on essential assets are priced. Financial markets are built around and convoluted with this curve. The yield curve is like a crystal ball containing important information on the dynamics of the economy, its risk perspective and investors' risk appetite. Deciphering and understanding the information is of crucial importance to policy makers, investors, firms and households. This course serves as a starting point to deciphering and understanding this crystal ball. To this end, we need to go through **four aspects:** - **Theory,** which provides a unified framework of macro finance models; - **Practice**, which gives the basics on market functions and mechanism; - **Techniques**, which consist of models and methodologies; and finally - **Questions**, among which some interesting and important issues will be investigated with the theory and techniques we just acquired.

2. Advanced Macroeconomics Ⅱ

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Instructors:
Linlin NIU
Reference Book:
➢ D. N. Dejong and C. Dave, Structural Macroeconometrics. Princeton University Press, 2007. Chapter 1 - 6. ➢ Jordi Gali, Monetary Policy, In.ation, and the Business Cycle: An Introduction to the New Keyesian Framework. Princeton University Press, 2008.
Course Description:
This course aims to introduce students to the recent development in the macroeconomic research, within the framework of dynamic stochastic general equilibrium (DSGE) models in general, and New Keyesian DSGE models in particular. With these tools at hand, we will discuss monetary policy, inflation and business cycle (Gali, 2008). The course, with a brief introduction to MATLAB, will be structured into three parts: 1. Numerical methods and macroeconomic models 2. New Keynesian DSGE models and monetary policy 3. Empirical methods that bring models to the data

3. Advanced Microeconomics Ⅱ

Targeted Programs:

First year students （Master , PhD）

Course Type:

Compulsory

Prerequisite:

The prerequisite for this course is Advanced Microeconomics I. Students are presumed to be familiar with multivariate calculus, probability theory and basic optimization theory.

Instructors:

Brett Graham

Reference Book:

Required :

- Osborne, Martin J. and Rubinstein, Ariel, *A Course in Game Theory*, MIT Press, 1994.
- Gibbons, Robert, *Game Theory For Applied Economists*, Princeton University Press, 1992

Optional :

- Mas-Colell, Andreu, Whinston, Michael D. and Green, Jerry. R, *Microeconomic Theory*, Oxford University Press, 1995.
- Osborne, Martin J., *An Introduction to Game Theory*, Oxford University Press, 2003
- Fudenberg, Drew and Tirole, Jean, *Game Theory*, MIT Press, 1991.

Course Description:

This is a core course designed to teach students the current tools of microeconomic analysis, and is a natural continuation of Advanced Microeconomics I. While the focus of learning in Advanced Microeconomics I was the classical theory of choice and perfectly competitive markets, the core concept of Advanced Microeconomics II is Nash equilibrium. This concept and its subsequent refinements will be applied to the analysis of strategic interaction, problems involving information and incentives and the functioning of imperfectly competitive markets.

At the end of the course students should be able to understand and critique the literature in a wide number of fields that heavily use the concepts, including labor economics, industrial organization, public finance, development, and even macroeconomics. What students learn here will form much of their basic repertoire as a professional economist in the future!

The class time will be divided into lecture and discussion. Students are encouraged to raise questions in the class. It is a good practice to think actively as an economist. The problem sets consist of applications of concepts learnt in class. The purpose of the problem sets is to test the student's understanding of these fundamental concepts. Students need to be able to confidently answer questions in the problem sets if they want to do well in the exams.

4. Advanced Econometrics Ⅱ

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Instructors:
Ying FANG
Reference Book:
Required: *Lecture Notes on Advanced Econometrics* by Yongmiao Hong(2006) Recommended: ➢ *Estimation and Inference in Econometrics* by Davidson and MacKinnon (1993) ➢ *Econometric Analysis* by W. Greene(1997); *Econometrics* by F. Hayashi (2000) ➢ *Econometric Analysis of Cross Section and Panel Data* by J. Wooldridge(2001).
Course Description:
This course is the continuation of Probability and Statistic Theory offered last semester. The course begins with an introduction of the classical linear regression (CLR) models, and then relaxes assumptions gradually. Besides CLR models, this course covers linear regression models with I.I.D. observations, linear regression models with dependent observations, linear regression models with HAC disturbances, instrumental variables regression, GMM and MLE. This course also touches several frontier topics such as model and variable selection method, resampling methods and nonparametric econometrics. This course aims to provide solid econometric foundation for both theorists and empirical economists.

5. Asset pricing

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

Instructors:

Kent WANG

Reference Book:

- Huang and Litzenberger, 1988*, Foundations for Financial Economics*，North-Holland (Elsevier Science Publishing, New York).
- Ingersoll, 1987 ,*Theory of Financial Decision Making* Rowan and Littlefield(Totowa, NJ).
- Cochrane, 2004 , Revised Edition, Princeton University Press.
- O'Hara, 1995 , Blackwell Publishers, Cambridge Mass.

Course Description:

This course, which is the first in the sequence of doctoral seminars offered in finance, is designed to introduce students to the major models of asset pricing and to Rational Expectations models. All of the material is developed from first principles, so there are no formal prerequisites for taking this seminar. It is assumed, however, that students are familiar with basic microeconomic theory and have a working knowledge of both calculus and matrix algebra. The outline that follows provides a brief description of the material that is covered in the course. The course begins by dealing with three broad categories of asset pricing models: single-period static models, discrete time intertemporal models, and continuous time models. The course then proceeds to develop rational expectations models: fully revealing equilibrium, noisy rational expectations equilibrium, the Kyle model, its extensions and future directions. The general approach will be:

- To examine the economic intuition behind each model
- Provide a mathematically rigorous derivation of the model
- Discuss the model's important features
- Outline the testable implications of the model.

6. Foundations of Finance

Targeted Programs:
First year students （Master , PhD）
Course Type:
Compulsory
Prerequisite:
Prior knowledge of microeconomics and slightly advanced “mathematics for economists” are required.
Instructors:
Li-Chuan TSAI
Reference Book:
➢ *Theory of Asset Pricing* by George Pennacchi. ➢ *Stochastic Calculus for Finance I and II* by Steven Shreve.
Course Description:
This course is designed to acquaint you with a sequence of carefully elaborated topics in finance. Important themes include asset pricing based on equilibrium principles and arbitrage considerations, optimal portfolio selection, risk measurement, and some introductions to behavioral biases and asymmetric information. This course also treats the continuous-time theory of stochastic calculus within the context of finance applications. We will start with the discrete-time binomial model as a vehicle for several fundamental concepts, and later develop analogous ideas in the continuous-time setting. Essentially, it is suitable for students who are seriously interested in financial economics, want to be aware of the frontier ideas that have marked the recent evolution of the discipline; and have an appetite for the formal analysis of these issues.

7. Financial Econometrics

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

Students taking this course should have some prior knowledge from undergraduate level of probability theory, statistical inferences, regression analysis, stochastic processes (stochastic calculus), and time series analysis as well as econometrics. Also, students should be familiar with at least one of statistical packages such as **SAS, Matlab, S-PLUS**, or R. Note that about 97% of commands in S-PLUS and R are same. In particular, for analyzing financial data, R has a lot of bundles and packages, which can be found, for example, at http://www.rproject.org/. The reason we use S-PLUS or R is that there is module **FinMetrics** in S-PLUS and **RMetrics** in R for financial analysis. FinMetrics is commercial but RMetrics is free, which can be downloaded from http://www.r-project.org/. See later for details about how to install R.

Instructors:

Zongwu CAI

Reference Book:

R.S. Tsay (2010), Analysis of Financial Time Series, 3rd Edition, John Wiley & Sons, New York.

Course Description:

The main purpose of this course is to provide you with a foundation to pursue the basic theory and methodology as well as applied projects involving the skills to analyzing financial data. This course also gives an overview of the econometric methods (models and their modeling techniques) applicable to financial economic modeling. More importantly, it is the ultimate goal of bringing you to the research frontier of the empirical finance. To model financial data, some packages will be used such as R, which is a very convenient programming language for doing homework assignments and projects.

You can download it for free from http://www.r-project.org/.

8. Industrial Organization

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

The prerequisite for this course is 'Advanced Microeconomics II'. Students are presumed to be familiar with multivariate calculus, basic optimization theory and game theory. You may want to review basic game theory before we begin the course.

Instructors:

Brett Graham

Reference Book:

Required :

- Martin, S., *Advanced Industrial Economics*, 2nd ed., Blackwell, 2002.

Optional :

- Tirole, J., *The Theory of Industrial Organization*, MIT Press, 1988.
- Armstrong, M. and Porter, R., *Handbook of Industrial Organization*, vol 3,North-Holland, 2007.
- Shy, O., *Industrial Organization*, MIT Press, 1996.
- Schmalensee, R. and Willig, R., *Handbook of Industrial Organization*, vol1, North-Holland,1989.

Course Description:

In general equilibrium models the standard neoclassical assumption is that agents take prices as given, and may therefore ignore the decisions of others in the market. The assumption is reasonable when there are a large number of firms (and consumers) but is unrealistic in most markets. When there are only a few firms operating in a market, firms must make strategic choices, i.e. the decisions of competing firms must be considered when a firm makes its own decision. In this course we analyse market outcomes in the presence of such strategic interaction. A brief overview of empirical tests of the theory are given where relevant

9. Law and Economics

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Cheryl Long
Reference Book:
Robert Cooter and Thomas Ulen, Law and Economics (Addison-Wesley, 6 ed.), or 史晋川译中文版，格致出版社/上海三联书店/上海人民出版社
Course Description:
This course provides an introduction to law and economics. Standard economic theory will be applied to analyze law and legal institutions and to study the origin, nature, and consequences of the "rules of the game" as they pertain to individual and group behavior. Specifically, applications of economic theory in property law, contract law, tort law, crime and prosecution, and other related topics will be discussed.

10. Professional English Writing

Course Type:
Compulsory(PhD)
Targeted Programs:
Second year students
Prerequisite:
Instructors:
Roslyn Bowers
Reference Book:
Course Description:

11. Time Series Analysis：Theory with Application Ⅱ

Targeted Programs:
Second year students （Master , PhD）
Course Type:
Elective
Prerequisite:
Instructors:
Yu, REN
Reference Book:
New Introduction to Multiple Time Series Analysis, Helmut Lutkepohl.
Course Description:
This course is an introduction to multiple time series analysis. It covers the topics related with vector autoregressive processes, cointegrated processes. The basic knowledge about univariate time series is required for this course.

12. Thesis Writing & Master Opening report

Targeted Programs:
Second year students
Course Type:
Compulsory(Master), Elective (PhD)
Prerequisite:
Instructors:
Shihe FU
Reference Book:
William Thomson,2009, Being a graduate student in economics, available at http://rcer.econ.rochester.edu/RCERPAPERS/rcer_553.pdf
Course Description:
The objective of this course is to introduce to graduate students the following: ➢ academic professionalism; ➢ how to find a research topic; ➢ how to find data for empirical research; ➢ how to give presentations; ➢ academic writing; ➢ submission and publication process. Graduate students at the thesis stage are strongly encouraged to present their original research ideas, proposals, or working papers and to receive feedbacks on both research and presentation. This course also helps you practice how to ask intelligent and sharp questions and how to respond to criticism in seminars.

13. Urban Economics

Targeted Programs:

Second year students （Master , PhD）

Course Type:

Elective

Prerequisite:

Advanced Microeconomics; Dynamic optimization; Applied econometrics

Instructors:

Shihe FU

Reference Book:

- Arnott, R., ed., 1996, *Regional and Urban Economics*, Volumes 1-2, Harwood Academic Publishers.
- Arnott, R., D. McMillen, eds, 2006, *A Companion to Urban Economics*, Blackwell Publishing.
- DiPasquale, D., Wheaton, W., 1996, *Urban Economics and Real Estate Markets,* Prentice Hall.
- Fujita, M., 1989, *Urban Economic Theory: Land Use and City Size*, Cambridge University Press.
- Fujita, M., Krugman,P., Venables, A., 2001, *The Spatial Economy*, The MIT Press.
- Fujita, M., Thisse, J.F., 2002, *Economics of Agglomeration*, Cambridge University Press.
- Henderson, J.V., 1985, *Economic Theory and The Cities*, Academic Press.
- O'Sullivan, A., 2011, *Urban Economics*, 8th edition, Irwin McGraw-Hill.
- *Handbook of Regional and Urban Economics*, Volumes 1-4, Elsevier

Course Description:

This course covers the main theory and empirical evidence in urban economics at the graduate level, focusing on the development of this field during the past three decades. The prerequisites are Advanced Microeconomics, Dynamic optimization, and Applied econometrics. Topics covered include internal structure of cities, optimal city size and city size distribution, theory and empirical evidence on agglomeration economies, urban growth, urban labor markets, housing economics and policy, transportation economics, local public finance, new economic geography, and recent studies on Chinese cities.