0. OBJECTIVES
This course introduces PhD students in finance and related fields to capital markets research, both applied theoretical and empirical. By the end of this quarter, students are expected to:

1. have a comprehensive conceptual framework of capital markets research (i.e., be familiar with the classic papers and recent contributions to frontier topics);

2. be able to analyze and evaluate new research efficiently; and

3. have acquired the skills to conduct and present original capital markets research.

I. PREREQUISITES
To register for or audit FIN 532 you must have completed a first-year graduate course in finance theory, microeconomic theory, macroeconomic theory, and econometrics.

II. LECTURES AND EXAMS

III. COMMUNICATIONS
Email is my primary mode of communication. I will use email to send assignments and administrative notices to all registered students. Please email my assistant Erin Wachowicz to get yourself on the email list. The official information source for FIN 532 is my course website:
It holds all lecture notes and assignments that I will have handed out to date.

IV. TIME REQUIREMENT

This is a very demanding course, irrespective of whether you are registered or just auditing. The average student can expect to spend at least 20 hours per week outside of class with assigned readings, problem sets, reviewing lectures, and working on the heavy-duty assignments.

V. GRADING AND AUDITING PRIVILEGE

The following components make up your course grade, if you are a registered student, or maintain your auditing privilege, if you are an auditing student:

- **Pre-Class Preparation**

  To make this class work, everyone has to work through every assigned reading before class. If you do not want to work hard, I do not want you in this class.

  **Registered students:** The first time that I discover you did not work through an assigned paper before class, I will issue you a warning. The second time, and every time thereafter, that I discover you did not work through an assigned paper before class, I will deduct 1/3rd of a grad from your final grade.

  **Auditing students:** The first two times that I discovered you did not work through an assigned paper before class, I will issue you a warning. The third time that I find out you did not work through an assigned paper before class, I will withdraw your auditing privilege. Note that you can lose your auditing privilege by coming unprepared to just one class!

- **Assignments (30 points)**

  At least every other week I will assign fairly lengthy homework. These exercises are to be completed individually, though you are encouraged to discuss with each other, and be handed in at or before the beginning of class on the day they are due. You are expected to start working on the assignment as soon as possible, since some of them could take days to complete. Under no circumstance will I accept late homework.

  The assignments are designed to help you understand the material, digest the assigned papers that I do not cover in class, and familiarize yourself with capital markets research. Many
problems will require the use of computers. You must know or quickly learn a statistical programming language. I recommend that you use MATLAB or GAUSS to handle the data manipulation, and use SAS to obtain raw data from WRDS. Of course, you may be a die-hard programmer and would like to use C++, Fortran, or the more user friendly Fortran 90.

Auditing students are exempt from the assignments.

- **Referee Reports and Conference Discussions (30 points)**

Every week that you are not working on an assignment, you will have to write a referee report on a paper I will distribute in class. Each referee report should be no longer than five pages, one-half spaced, and a conference discussion should be no longer than 10 slides, which can be completed within 10–12 minutes in a formal presentation. Depending on the ultimate size of the class, I may:

- assign different papers to different students and
- require that students present a discussion of the paper like those you see in conferences.

The referee reports and conference discussions extend your knowledge of the literature and give you an idea of the substantive and methodological questions which current research focuses on. Perhaps more importantly, they teach you to form an opinion about whether a piece of research is outstanding or only mediocre. You will not be graded on whether your opinion agrees with mine, but rather on how you come to your conclusions and how well you back them up. It is very possible that I will change my mind after reading your report and/or listening to your discussion.

Auditing students are required to hand in respectable referee reports and to present conference discussions, just like registered students. If you do not, I will immediately withdraw your auditing privilege.

- **Research Proposal (30 points)**

You will have to submit an original research proposal (applied theoretical and/or empirical) by the end of the quarter. I realize that this is not your thesis, so I do not expect that you to come up with an economic explanation on an asset pricing anomaly or attack an uncharted
research question, (although if you do, I will be extremely proud of you). However, you are expected to write a paper that

– uses a methodology/model introduced in this course, or more advanced, to answer an economic question of interest to you, or

– improve on someone’s answer to an economic question by refining a methodology/model of interest to you.

This proposal should be no longer than 20 pages, one-half spaced, not including tables and figures. I am more interested in seeing your mind at work, than I am in reading a well-polished literature review. Generally, I think the more clever your idea is, the shorter the paper can be.

In preparing your research proposal, you should choose a topic and bring yourself to the frontier of the existing literature. You should search the recent finance journals for related published papers and the SSRN or other sources for current working papers. I will maintain on the course website a page on “Suggested Paper Topics for PhD Students”, which you may find useful to help you start to think about finance questions.

Auditing students are also required to hand in respectable research proposal.

**Participation (10 points)**

I expect that you become an active participant in the class. You are expected to ask questions, raise issues, contribute your knowledge, and challenge the opinions of others, including mine. The class will be a lot more enjoyable for everyone if you do. I will make a note of who contributed after every class.

Auditing students are required to participate, just like registered students. If you manage to establish a reputation for being quiet (believe me, it is not a good trait for the job market) I will withdraw your auditing privilege.

VI. TEXT AND READING LIST

The required text books are as follows:


In addition, you may find the following books useful:

**Econometrics**


**Behavioral Finance**


**Macroeconomics: Business Cycle Research and International Finance**


Here is a preliminary reading list for the quarter. The approach is to list important topical areas within the overall literature and a sample of papers from each area. The choice of articles is a mix of classic papers and recent contributions so that you can trace the evolution of the research in each area to the present. The lectures will be devoted to discussing the genesis of important ideas in the literature and concurrent developments that stimulated many of the ideas. I will also try to critically evaluate the findings and research designs employed in past research. The main objective is to offer competing hypotheses and interpretations for the observed findings, and to present unresolved issues and directions for future research.
It is a capital mistake to theorize before one has data.

Sir Arthur Conan Doyle

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A Capital Markets Research: The Landscape

Required


Recommended


7. Fama, Eugene, 1976, Foundations of Finance, Chapter 5


B Empirical Research

B.1 Event Studies

Required


Recommended


B.2 Time-Series Predictability

Required


**Recommended**


B.3 Cross-Sectional Predictability: Beta Method

Required


Recommended


12


B.4 Conditional Asset Pricing: SDF Method

Required


**Recommended**


**B.5 Momentum**

**Required**


**Recommended**


**B.6 Time-Varying Volatility**

Remark: Students should take FIN 533, Special Topics in Finance, taught by Professor Bill Schwert, who will provide a more thorough treatment of this subject than that given here.
B.6.1 Market Volatility

Required


Recommended


B.6.2 Firm-Level Volatility

Required


**Recommended**


**B.7 Term-Structure of Interest Rates**

**Required**


**Recommended**


### B.8 Mutual Fund

**Required**


**Recommended**


### C Applied Theories

#### C.1 Consumption-Based Asset Pricing

Remark: Students who are interested in this subject are highly recommended to take ECON 529, Dynamic Asset Pricing and Consumption, taught by Professor Fatih Guvenen, who will give a more thorough treatment on these topics than that given here.
C.1.1 Models

Required


Recommended


C.1.2 Empirical Tests

Required


Recommended


C.2 Production-Based Asset Pricing

C.2.1 Aggregate Stock Market

Required


Recommended


C.2.2 The Cross-Section of Returns

Required


Recommended


D Behavioral Finance

D.1 Foundations

Required


D.2 Asset Pricing Applications

Required


**Recommended**


5. Grinblatt, Mark, and Bing Han, 2002, The Disposition Effect and Momentum, Working Paper, Anderson Graduate School of Management, UCLA.


**D.3 Corporate Finance Applications**

**Required**


**Recommended**


**E Special Topics of Interests**

**E.1 Financing Constraints, Corporate Governance, Liquidity, and Asset Prices**

**Required**


**Recommended**


**E.2 Learning in Capital Markets**

**Required**


**Recommended**


**E.3 Issues in International Finance**

**Required**


E.4 Asset Prices in Monetary Economies

Required


Recommended


Students who are interested in International Finance and/or Market Microstructure may want to see me for a detail reading list on these subjects.