Description: H195A is for senior Economic Majors who meet the GPA requirements of 3.3 overall and 3.5 in the upper-division economics courses and that plan to write and honors thesis. The goal of the seminar is help you choose a thesis topic, get data, write a prospectus, get an advisor, and start on your thesis. That’s a lot for fifteen weeks.

Independent research is very different from taking a lecture class. In lecture classes you can be passive. To do research you must take the initiative. My experience is that most students love research, some students hate research, but almost none are indifferent. If you love it then writing a thesis is a lot of work, but fun. If you hate it then drop the course because a thesis is a lot of work and not fun for you.

Assignments: This class has team projects and individual assignments that must be turned in on time. The goal of the team projects is to get you to do small structured quantitative research projects. The team projects are problem sets for a thesis. The individual assignments are steps to constructing your thesis.

Team projects: The team is responsible for the exercise.

Team: A team can have a MAX of four students.

Team Projects: I give you a simple economic model and the null hypothesis.

Your team (1) gets the data and tests the hypothesis (2) writes a short (2-5 pages) paper that (a) specifies the model (b) clearly states the null hypothesis (c) and explains the results of your tests.

All teams must be prepared to present the project in class. I will select a few teams present.

Individual Projects: Each student is responsible for individual assignments.

   1. A 15 minute summary of an economic research paper which is

      a. published in an economic journal within the last five years, or a working paper, eg, National Bureau of Economic Research (NBER).

      Published or working papers usually are technically difficult. But don’t be discouraged. These represent several years work. You have only a semester. The papers represent a model for presenting research.

      b. or a news letter from a Fed Bank, or other organization eg,  http://www.frbsf.org/publications/economics/letter/  PLUS a senior honors thesis which you can get from the undergraduate advisor in 549 Evans. Some theses are online at  http://emlab.berkeley.edu/econ/ugrad/theses/index.shtml
This assignment is to help guide you to your topic. Everything should look interesting so you have to be selective.

I approve the paper that you select. Pick one that you think will lead to a thesis topic.

2. The other individual assignments are to write a prospectus. The steps are in the syllabus.

Turn in individual assignments at the end of class or leave them in the envelope outside my office at 619 Evans

**Grades:** Grades are pass/not pass. Three late individual assignments and you do not pass. There are no excuses. If you are out of town—you may go on recruiting, or other, trips—email your assignment.

**Time Line**

**August 29**

Introduction

Individual Assignment: Due September 5.

(1) Introduce yourself to me in 300 words—background, interests, whatever you think is relevant.
(2) Three ideas for a thesis--each with a 100 word description. (Use separate page—I’ll return these, but I want to keep your background piece.)

**September 5**

(1) First individual assignment due

(2) I explain the First Team project: Random walk model of stock prices—due September 26

Efficient Markets assignment and data are on the class webpage

Read the efficient markets chapter in any good finance text, eg, Bodie, Kane, and Marcus, 7th Edition, 2007, *Investments*, Chapter 11
Malkiel*, JEP 2003 (Elmo’s Corner)
Shiller*, JEP 2003 (Elmo’s Corner)
Craine*, Notes on Random Walks and Mean Reversion (Elmo’s Corner)
Craine*, Notes on Gordon’s Formula (Elmo’s Corner)

**September 12**

(1) Library tour  This looks like another easy passive day—passive yes, easy no! Online access is the answer to your thesis and maybe your career—be a sponge, absorb everything.

(2) Turn in the citation and 100 word summary of the paper, or newsletter, that you want to present.
September 19  (1) Discuss progress on Market Efficiency project
               (2) Be prepared for 15 minute presentation of paper you selected

September 26  Team Random Walk project. Each team turns in a 2-5 page write up of their project.  Be
               prepared for a 15 minute class presentation. Bring your computer or flash drive. I will
               select 3 teams to present.

October 3    I explain the second team project: Forward Discount Puzzle: due October 17.
               Forward Premium Model, or Expected Interest Rate Parity
               
               Craine* Economic Model and Assignment
               Bodie, Kane, and Marcus, Chapter 23: Futures and Swaps
               Cavallo*, FSRB Economic Letter (2006), Interest Rates, Carry Trades, and
               Exchange Rate Movements
               Burnside, Eichenbaum, Kleshchelski, and Rebelo* (2006), The Returns to
               Currency Speculation, NBER working paper 12489
               
               Individual Project: Turn in two pages describing your idea for your thesis and a summary
               of a relevant article you found on the topic using EconLit.

October 10  Individual Project: (1) Rewrite your thesis idea and summarize another article, or choose
               another idea and summarize an article on this topic. (2) Formulate an idea as a testable
               hypothesis and list potential data sources. (Getting the data comes next week.) Explain
               the hypothesis and how the data might be used to test it two pages or less. As always, be
               prepared to discuss your project, relevant papers, and potential data sources in class.

               Class presentations of papers and news letters.

October 17  Forward Discount Puzzle team project due: Same format as project one—two-five page
               write up and be prepared for a class presentation.

October 24  Individual project: Retrieve some data that you could use to test the hypothesis in your
               thesis. Compute summary statistics (means, variances, covariances, etc) and graph the
               data. Do a two page write up of the data. Be prepared to present in class.

October 31  Happy Halloween—dress up
               Those that think they have a thesis topic: Write a three or four page paper presenting (1)
               the idea (2) why it is interesting (3) ways to test the idea—econometric or some other
               way to reject it (4) data sources, and (5) an annotated bibliography showing where your
               idea fits in the literature.

               Those that don’t have a topic: Choose four ideas and write a two page essay for each—
               explain — (1) why they are interesting and (2) how they could be statistically tested or
               falsified some other way.

November 7  Office hours for individual discussion—email sign up
November 14  First draft of your prospectus is due. This is an 8-10 page paper that says (1) what the economic question is (2) why it is interesting (3) how it fits in the literature and (4) how you intend to answer the question.

Office hours for individual discussion

November 21  Office hours for individual discussion

November 28  Holiday

December 5  Final draft of your prospectus is due. This paper must have (1) a clear exposition of the focus of this thesis (2) why one should care (3) empirical, or other (although I can’t imagine what they might be) ways to test the main hypothesis.

Class presentations.

December 7  More class presentations.