

DEPARTMENT OF ECONOMICS AND FINANCE  
College of Management and Economics  
University of Guelph

**ECON\*6380: Financial Economics**

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Office Hours: Monday 3:30-5:00pm (or by appointment)

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**COURSE OUTLINE**

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This is a graduate course in financial economics designed for Masters and PhD students. The objective of this course is threefold: (i) build a common background for all students in order to facilitate discussion of finance research; (ii) provide an in-depth look at a few selected core topics in finance, and (iii) expose students to the analysis of seminal and top recent research papers. This course is designed to provide in-depth analysis of few topics rather than superficial analysis of a wide variety of topics.

The delivery of this course will involve formal lecturing as well as class discussions and student presentations. About half of the course will be dedicated to formal lecturing and the other half to structured discussions focusing on a set of finance research papers. Students are strongly encouraged to participate and indeed lead the discussions to the extent that they can. In this course, the more interaction, the better the learning experience.

There is no required textbook for this course. The readings will consist of the lecture notes and a set of assigned papers for each topic. All materials, including lecture notes and assigned papers, will be posted on courselink or distributed in class.

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**ASSESSMENT**

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Assessment for this course is based on five components:

- In-class participation: 10%
- One in-class presentation discussing a research paper: 20%
- Written summaries of three research papers (one page each): 15%
- Empirical Project: 35%
- Final examination (take home): 20%

### *Participation*

Students are expected to attend all classes and actively participate in the discussions on both the lecture material and the student presentations. Attendance will be taken in every class. A student is allowed to miss three classes during the semester without an explanation. When a student misses a fourth class, there will be a deduction of 1% from the final grade for every missed class (counting the first three classes) up to a maximum of a 10% deduction. If a student attends all classes with no exception, he/she automatically gets the full 10% for participation.

### *Presentations*

Each student will be assigned one paper for their presentation. However, all students must read all the assigned presentation papers (including the papers assigned to your classmates) so that we can have a discussion after each presentation.

The in-class presentation involves writing 5-10 PowerPoint slides. The slides will be submitted to the instructor in class right before the presentation and students will receive a grade based on the quality of their presentation and the quality of the slides. For the slides, what counts is the content not how fancy their design is. A simple PowerPoint design will be just fine. You should aim to talk for a maximum of 15 minutes (but no less than 10 minutes). A class discussion will follow each presentation.

Your presentation should focus on the following:

- Discuss the objectives of the paper
- Set the paper in context, by discussing whether this is an important subject
- Describe the data and methods
- Present the results and implications.

You can also spend a few minutes doing your best to analyze the paper:

- Indicate the strengths and weaknesses of the paper
- Say what you may have done differently and why
- Speculate on what research needs to be done next.

However, if you do not have strong opinions about the above three bullet points, you can ignore them.

The best presentations are the ones that use simple language to describe the main ideas of the paper in a clear and precise manner that makes sense to everyone, even those who have not read the paper. Think of your presentation as teaching the paper to your classmates. So what you need to emphasize is whether the paper makes sense, whether the question is important, whether the results support the question and, in the end, whether we should care.

### *Written summaries of papers*

Each student will be assigned three research papers among the ones that will be presented in class for which they will write a summary. Each summary will have maximum length of one page, and will contain: (i) one paragraph describing what the paper does; (ii) one paragraph listing the main findings of the paper (you can use bullet points here); and (iii) two distinct questions addressed to the student who will be presenting this paper. The questions can be about: so, is the question of the paper

interesting? Is the methodology appropriate? Do the authors find strong support for their hypothesis? Why should we care about this result?

### *Advice on how to read papers*

When reading a paper, start with the abstract, introduction and conclusion. Try to obtain a general understanding before diving into the technicalities. There are many points in papers which are difficult to understand either because of the techniques (math or econometrics) or because of the sophistication in the economic ideas. Do not get hung-up on small details, but try to see the “big picture”. Do not worry if you do not understand all the details of the methodology. If you are presenting a paper, you should try to understand as much as you can. If you cannot understand something, say so in your presentation. It could very well be that the paper is not clearly written or simply that the quantitative sophistication of the paper is beyond the level of this course.

### *Empirical Project*

You are required to write an empirical project on one of two topics. It is your decision which one to choose:

1. *Asset Allocation*: design an asset allocation investment strategy across a large set of assets by taking the following steps:
  - a. Collect monthly data for at least 10 assets (stocks, bonds or currencies) over at least 20 years.
  - b. Report descriptive statistics of the data.
  - c. Design a (conditional or unconditional) mean-variance strategy for allocating wealth across these assets.
  - d. Report the weights and performance of the strategy.
  - e. Discuss the role of transaction costs
  - f. Compare the results to a simple 1/N strategy.
2. *Asset Pricing*: price a large cross-section of assets by taking the following steps:
  - a. Collect monthly data for at least 10 stock portfolios over at least 20 years (e.g., you can get these from the website of Ken French).
  - b. Report descriptive statistics of the data.
  - c. Estimate two-stage Fama and McBeth (1973) regressions for each of three asset pricing models:
    - i. The CAPM.
    - ii. The Fama-French (1993) model.
    - iii. The Fama-French (1993) model augmented by momentum, i.e., the Carhart (1997) model.
  - d. Report and discuss the results.

The empirical project should be no more than 10 pages long, excluding the tables, figures and references. The 10 pages should include the following sections:

- A title page, which will include an abstract of no more than 150 words (1 page).
- An introduction that summarizes the main ideas, objectives and contribution of the project (2 pages).

- Description of the data (1 page).
- Discussion of the empirical methods the paper implements (2 pages).
- Discussion of the results (3 pages).
- Conclusion (1 page).

**The deadline for submission of the empirical project is Wednesday November 21, 2012.**

### *Final Exam*

The final exam will cover all the material taught in this course. Students will be asked to write one essay on one of the topics discussed in class. It will be a take home exam which will be given to you in advance and will be due on the last class on **Thursday November 29, 2012**. More details on the format of the exam will be provided later.

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### **TEXTBOOKS**

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There is no set textbook for this course. Students are expected to study the lecture handouts and the assigned papers. For further information on a number of topics, students can refer to numerous textbooks such as the following:

*“Fundamentals of Corporate Finance”* by Brealey, Myers, Marcus, Maynes and Mitra. 4<sup>th</sup> Canadian Edition. McGraw-Hill Ryerson 2009 (basic/introductory level)

*“Financial Theory and Corporate Policy”* by Copeland, Weston and Shastri, 4<sup>th</sup> edition, 2004. (intermediate level)

*“Asset Pricing”* Revised Edition, by John H. Cochrane, Princeton University Press, 2005. (advanced graduate level)

All other materials, including lecture notes, will be posted on courselink or distributed in class.

# LIST OF TOPICS

## REVIEW

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- Measuring risk and return: mean, variance, standard deviation, covariance, correlation, skewness, kurtosis
- The normal distribution and the lognormal distribution for modeling asset returns
- The empirical properties of asset returns: stocks, bonds and exchange rates
- Investor preferences: a comprehensive review of risk aversion

## VALUING STOCKS AND BONDS

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- Financial Calculus:
  - Compounding and future value
  - Discounting and present value
  - Annuities and perpetuities
- Valuing Bonds:
  - Computing bond prices: the effect of the yield, coupon rate and time to maturity
  - The term structure of interest rates
- Valuing Stocks:
  - Computing stock prices: the dividend discount model, the cost of equity, the present value of growth opportunities

## DYNAMIC ASSET ALLOCATION

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- The foundations of portfolio choice and diversification
- Mean variance analysis: assumptions, strengths and weaknesses
  - Maximum Utility Strategy
  - Maximum Expected Return Strategy
  - Minimum Volatility Strategy
  - Global Minimum Variance Strategy
  - The 1/N strategy
- Performance Measures and Transaction Costs
- Long horizon investing

## **THE CROSS SECTION OF EXPECTED STOCK RETURNS**

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- A Review of the Capital Asset Pricing Model (CAPM) and Arbitrage Pricing Theory (APT)
- The Fama and McBeth (1973) methodology
- The Fama-French (1993) factors
- Alternative factors for explaining the cross section of stock returns:
  - Momentum factor
  - Volatility, correlation and skewness factors
  - Liquidity factor
- Market Efficiency

## **RETURN PREDICTABILITY**

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- Out-of-sample prediction of the equity premium
  - Types of conditioning information: dividend yield, T-bill yield, term spread, default spread, consumption-to-wealth ratio, etc.
  - Short vs. long horizon

## **FX AND THE CARRY TRADE**

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- The Foreign Exchange market
- The forward bias in exchange rates
- The carry trade strategy
- The momentum strategy for currencies

## LIST OF PAPERS

*For discussion in class and presentations*

### **DYNAMIC ASSET ALLOCATION**

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Barberis, N. (2000). "Investing for the Long Run when Returns are Predictable," *Journal of Finance* 55, 225-264.

DeMiguel, V., L. Garlappi, and R. Uppal (2009). "Optimal versus Naive Diversification: How Inefficient is the 1/N Portfolio Strategy?" *Review of Financial Studies* 22 1915-1953.

### **THE CROSS SECTION OF EXPECTED STOCK RETURNS**

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Ang, A., R.J. Hodrick, Y. Xing, and X. Zhang (2006). "The Cross-Section of Volatility and Expected Returns," *Journal of Finance* 61, 259-299.

Carhart, M. (1997). "On Persistence in Mutual Fund Performance," *Journal of Finance* 52, 57-82.

Fama, E., and K. French (1992). "The Cross-Section of Expected Stock Returns," *Journal of Finance* 47, 427-465.

Fama, E., and K. French (1993). "Common Risk Factors in the Returns on Stocks and Bonds," *Journal of Financial Economics* 33, 3-56.

Fama, E., and J. McBeth (1973). "Risk, Return and Equilibrium: Empirical Tests," *Journal of Political Economy* 81, 607-636.

Jegadeesh, N., and S. Titman (1993). "Returns to Buying Winners and Selling Losers: Implications for Stock Market Efficiency," *Journal of Finance* 48, 65-91.

Pastor, L., and R.F. Stambaugh (2003). "Liquidity Risk and Expected Stock Returns," *Journal of Political Economy* 111, 642-685.

Krishnan, C.N.V., R. Petkova, and P. Ritchken (2009). "Correlation Risk," *Journal of Empirical Finance* 16, 353-367.

### **RETURN PREDICTABILITY**

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Campbell, J.Y., and S.B. Thompson (2008). "Predicting Excess Stock Returns Out of Sample: Can Anything Beat the Historical Average?" *Review of Financial Studies* 21, 1509-1531.

Fama, E., and K. French (1988). "Dividend Yields and Expected Stock Returns," *Journal of Financial Economics* 22, 3-25.

Goyal, A., and P. Santa-Clara (2003). "Idiosyncratic Risk Matters!," *Journal of Finance* 58, 975-1008.

Lettau, M., and S. Ludvigson (2001). "Consumption, Aggregate Wealth and Expected Stock Returns," *Journal of Finance* 56, 815-849.

Pollet, J.M., and M. Wilson (2010). "Average Correlation and Stock Market Returns," *Journal of Financial Economics* 96, 364-380.

Welch, I., and A. Goyal (2008). "A Comprehensive Look at the Empirical Performance of Equity Premium Prediction," *Review of Financial Studies* 21, 1455-1508.

## **VOLATILITY TIMING**

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Fleming, J., C. Kirby, and B. Ostdiek (2001). "The Economic Value of Volatility Timing," *Journal of Finance* 56, 329-352.

## **FX AND THE CARRY TRADE**

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Della Corte, P., L. Sarno, and I. Tsiakas (2009). "An Economic Evaluation of Empirical Exchange Rate Models." *Review of Financial Studies* 22, 3491-3530.

Lustig, H., N. Roussanov, and A. Verdelhan (2011). "Common Risk Factors in Currency Markets," *Review of Financial Studies* 24, 3731-3777.

Menkhoff, L., L. Sarno, M. Schmeling, and A. Schrimpf (2012). "Carry Trades and Global Foreign Exchange Volatility," *Journal of Finance* 67, 681-718.

Menkhoff, L., L. Sarno, M. Schmeling, and A. Schrimpf (2012). "Currency Momentum Strategies," *Journal of Financial Economics* (forthcoming).

## YOUR RESPONSIBILITIES

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It is your responsibility as a student to be aware of and to abide by the University's policies regarding academic misconduct, email communication, maintaining copies of out-of-class assignments, what to do when you cannot meet a course requirement and the drop date for this semester. To better understand these policies, visit:

<http://www.uoguelph.ca/economics/node/1115>

You will be asked to complete an evaluation of this course at some time during the last two weeks of the semester. **This will be done in class.** The Department of Economics and Finance policy regarding the conduct and use of these evaluations will be found at:

<http://www.uoguelph.ca/economics/academics/courses/course-evaluation>

As your teachers, we will do our best to deliver a course of the highest standard, and to create an enjoyable and productive learning experience. We are professionals, and we expect nothing less from you. Below are a few points to lay down the ground rules:

- **Be on time** for class. If you arrive late, take a seat in the back of the lecture theatre and try to minimize the distraction to your classmates.
- **Do not leave half-way through a lecture.** If you know in advance that you will have to leave before the end of the session, let your teacher know at the start of the session, take a seat in the back, and leave quietly when you have to.
- **Stay quiet** during classes.
- **Switch off your cell phone** before you come to class.

We hope you will enjoy the course and have a productive learning experience!