

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

**ECON\*4560: Advanced Topics in Finance**

Instructor: Ilias Tsiakas  
Office: MacKinnon 737  
Phone: Ext. 53054  
Email: itsiakas@uoguelph.ca  
Office Hours: Tuesday and Thursday 4-5pm (or by appointment)

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**COURSE OUTLINE**

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This is an advanced finance course, which will cover a selection of topics. The objective of this course is threefold: (i) build a common background for all students in asset pricing and corporate finance 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 four components:

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| • In-class participation                                   | 10% |
| • One in-class presentation discussing one research paper: | 20% |
| • A written critical review of a second research paper:    | 30% |
| • Final examination:                                       | 40% |

## *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 Professor 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 20 minutes (but no less than 15 minutes). A class discussion will follow each presentation.

Spend about 15 minutes describing what the paper does:

- 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.

Spend about 5 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.

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.

## *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.

### *Critical Review*

You are also required to write a critical review of one paper that you can choose from a short list of papers. Each review should be a maximum of five double-spaced pages, and should have the following format:

1. A summary of the main ideas, objectives and contribution of the paper (1 page)
2. A brief summary of the empirical and theoretical methods the paper implements (2 pages)
3. A critique of the paper: what are the strengths and weaknesses in your opinion (1 page)
4. Suggestions for improvements and implications for further research (1 page)

It is not necessary to keep rigidly to these proportions, but the report must include the four parts above. In addition to the above, you can include one or two tables/graphs if you think this will help your presentation, although this may not be necessary.

**The deadline for submission of the critical review is Thursday March 1, 2012.**

### *Final Exam*

The final exam will cover all the material taught in this course. Students will be asked to write essays on the topics discussed in class. It will be a take-home exam written right after the final class. 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

## 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: size and value
- Alternative factors for explaining the cross section of stock returns:
  - Momentum factor
  - Volatility, correlation and skewness factors
  - Liquidity factor

## **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

## **VOLATILITY TIMING**

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- Modelling volatility and correlation:
  - Generalized Autoregressive Conditional Heteroskedasticity (GARCH) models
  - Stochastic Volatility models
  - Realized Volatility models
  - Dynamic Conditional Correlation models
- The economic value of volatility timing
- Trading volatility: volatility swaps and forward volatility agreements

## **FX AND THE CARRY TRADE**

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

## 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.

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.

Fleming, J., C. Kirby, and B. Ostdiek (2003). "The Economic Value of Volatility Timing using 'Realized' Volatility," *Journal of Financial Economics* 67, 473-509.

French, K.R., W. Schwert, and R.F. Stambaugh (1987). "Expected Stock Returns and Volatility," *Journal of Financial Economics* 19, 3-29.

## **FX AND THE CARRY TRADE**

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Bilson, J.F.O. (1981). "The 'Speculative Efficiency' Hypothesis," *Journal of Business* 54, 435-451.

Burnside, C., M. Eichenbaum, I. Kleshchelski, and S. Rebelo (2011). "Do Peso Problems Explain the Returns to the Carry Trade?" *Review of Financial Studies* 24 853-891.

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

Della Corte, P., L. Sarno, and I. Tsiakas (2011). "Spot and Forward Volatility in Foreign Exchange," *Journal of Financial Economics* 100, 496-513.

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

Menkhoff, L., L. Sarno, M. Schmeling, and A. Schrimpf (2011). "Carry Trades and Global Foreign Exchange Volatility," *Journal of Finance* (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.economics.uoguelph.ca/student-responsibilities-policies.asp>

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 policy regarding the conduct and use of these evaluations will be found at:

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

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!