SYLLABUS

COURSE SYNOPSIS

The goal of this course is to provide a framework for understanding the key theoretical and practical models used in the financial world. After introducing some basic pricing and valuation tools, we will address how to use these tools to provide a foundation on how financial assets are priced in the marketplace. We will go on to examine the tradeoffs between risk and return, and explore optimal portfolio selection and analysis. We will also discuss some derivatives markets (futures and options) and evaluate how these securities can be used for both hedging and speculative purposes. Finally, we will introduce corporate valuation using net present value and alternative methodologies for pricing both projects and companies.

CLASS MEETING TIMES AND FORMAT

Classes will be in a lecture format, but I encourage students to ask questions and to challenge ideas and concepts that are introduced. I will hold weekly office hours, and will also be available at other times by appointment.

Class attendance is essential, as much of the material that we will cover is not in the (optional) textbook, and the lecture handouts by themselves are not sufficient to understand the material fully. Repeated absence from class is likely to have a negative impact on your grade, as I will count anything that I say in class to be fair game for questions in problem sets and exams.

TEXTS:

Lecture Notes: Will be posted on Sakai.

Many students find class attendance and the posted lecture notes to be sufficient. However, if you prefer to have other texts relating to the material, the following two books may be helpful:

Brealey and Myers: *Principles of Corporate Finance*  OPTIONAL
Bodie, Kane and Marcus: *Investments*  OPTIONAL

ASSIGNMENTS, PROJECTS, EXAM AND GRADING:

Your grade for this course will be based on a combination of 10 problem sets (of which each individual student’s best 8 scores will count for 30%), a midterm exam (25%), and a cumulative final exam (45%). If your grade on the final exam is higher than your grade on the midterm, I will automatically use your final exam score to account for 70% (i.e., all the weight will move from the midterm to the final).
Problem Sets
The problem sets will be posted on Sakai, typically on a Wednesday, to be handed in (physical copies) the following Monday at the beginning of class. Problem sets may not be handed in late under any circumstances. I understand that there may be exceptional circumstances relating to illness, family emergency, etc. that may prevent you from being able to submit every problem set on time. For this reason, I will drop the lowest two problem set scores for each student before calculating final grades for the class.

I will permit If you work in teams of up to 4 people on the problem sets. You may work with the same team throughout the semester, or change teams for different problem sets, or work alone – whichever you prefer. For each submitted problem set, all team members’ names and NetIDs must be written clearly, at the top of the problem set. If there are any names or NetIDs that do not match the students’ names and NetIDs on Sakai, those students’ grades will not be recorded.

If you do choose to work in a team, bear in mind that the midterm and final exams are based on independent performance, which should temper your desire to ‘free-ride’ on problem sets. If you don’t fully understand how to do the problems in the problem sets, you will not do well in the exams.

Be aware that accuracy is an important component of the grade received on all problem sets and the exams. In other classes, you might lose just one mark if you use the right method but make a numerical error and arrive at the wrong solution. You should not assume that this type of grading policy will apply in this course. Clear and lucid presentation of your solutions will also work in your favor.

Some problem sets will necessitate the use of the spreadsheet software Excel. If you are unfamiliar with Excel, this will be an excellent opportunity to get some experience with it. It is used throughout the business world, and especially in finance/economics/accounting-related fields.

Final Exam
The final exam for the course is cumulative, and will take place on Thursday, Dec 12 from 2pm – 5pm in our usual classroom, as scheduled on the University exam calendar.

Regrade Policy
I will only accept requests to regrade a problem set if (1) you submit it within 7 days of the problem set being graded and returned, and (2) you believe that your true grade is more than 4% higher than your written grade on that problem set. That is, I actively discourage “grade grubbing”. You should also be aware that if you submit a problem set for a regrade, I will regrade the entire problem set, and that this has potential to result in a reduction of the homework grade, if I think that the grader has been too generous in any of the marks awarded.

The same regrade policy applies to the exam: only submit an exam for a regrade if you believe that there is a grading error (I’ll permit requests to check errors of 2% or more for exams); and assume that I’ll regrade the entire exam.
COURSE SCHEDULE

Introduction to Discounting
Rates of return. Future Value and present value. Present value of multiple cashflows.

Bond Markets
Bond prices and yields. Forward rates. Duration, convexity, and hedging. The term structure of interest rates and theories of the yield curve slope. Risk management in the fixed income markets.
*Problem Sets 1 & 2*

Equity Securities and Corporate Valuation
Net present value and its use in valuing corporate projects. Alternatives to NPV. Valuation via multiples analysis.
*Problem Set 3*

Portfolio Theory
*Problem sets 4 & 5*

Midterm Exam
Exam review: Monday, Sep 30 in class
Midterm: Wednesday, Oct 2 in class

Fall Break
Oct 7

Capital Asset Pricing Model: CAPM
*Problem Set 6*
Performance Measurement


Problem Set 7

Derivatives


Problem Sets 8, 9, 10

Thanksgiving Break
Nov 27

Review and wrap-up
Dec 2 & 4

Final Exam
Wednesday December 12, from 9am – 12pm in Soc Sci 139