

### **Applied Corporate Finance and Investment Banking**

This course builds off the concepts studied in the introductory corporate finance course and applies them to the fundamental investment banking activities of financing and valuing companies and of analyzing corporate transactions. Stress is on bridging the gap between theory and practice, a gap that can be alarmingly high. Following the late Fischer Black, the course is designed around a series of questions. I have found that I remember questions better than answers and I feel your experience will be similar, at least in the long run. Readings for each week will be the primary source of the questions, so be sure to do the reading *before* class.

I have also found that to understand an issue a student must to explain it. Consequently, the entire grade for this course is based on participation. Instead of lecturing, I will call on specific students to answer a series of questions. It will be a bit like a scientific version of a Harvard law school class. Don't panic if you don't know answer to some of the questions because I suspect that will be common. However, if it becomes a habit, your grade will suffer. For those of you who do go into business related fields, there is a side benefit of this approach. Because corporate events are fast moving, business ideas are usually evaluated in Q&A sessions similar to those in this course.

Prerequisites: BEM 103.

Time: Tues 6-8:50 pm in Baxter 125.

Office hours: By appointment in Baxter 325.

TA:

Text: **Required:** *Financial Statement Analysis and Security Valuation*, Stephen Penman.

Other Valuation Books

Cornell: *Corporate Valuation*.

Damodaran: *Damodaran on Valuation*.

Koller, Goedhart and Wessels: *Valuation*.

Pratt: *Valuing a Business*.

Materials: Added reading materials for course are available electronically in the course readings database.

## Reading Assignments and Course Schedule

### **Week 1 (4/1): Introduction to the course. What is a firm? What is it supposed to do from a financial point of view? Review of financial reporting and what can go wrong.**

What is a firm? What is the relation of the firm to its various stakeholders? Why are managers and shareholders unique stakeholders?

What is the theoretical objective of the firm? How is that objective to be carried out? What does it mean, operationally, to maximize value? How do firms create value in the first place? What redress do shareholders have if a firm fails to maximize shareholder value?

What is on the balance sheet? What items are good indicators of market value? What are not? Are any key items left off? How can we estimate total value of assets on a market value basis? Which items on a market value balance sheet do we refer to as the “value of the firm”? Be ready for questions in class using Google finance data for an actual company.

Readings and assignments

Penman: Chapters 2 and 3.

### **Week 2 (4/8): The DCF and Residual Income Approach to Valuation.**

If the balance sheet doesn't do the job, how do we estimate the market value of the firm? How do we use cash flow or residual earnings to estimate value? What items on the right side of the market value balance sheet equal the present value of cash flows or residual earnings and book value?

What are the practical problems with estimating future cash flow or residual value? How did Lazard derive the forecasts in their report?

Readings and assignments

Penman Chapters 4, 5.

DCF from industry source

### **Week 3 (4/15): Session at CRA. Data Sources for Financial Analysis. Estimating the Cost of Capital: The current state of the applied affairs (1).**

Class will start with a CRA presentation on the data sources available for financial analysis.

What is the cost of capital? What affects the cost of capital? What can a firm do to lower its cost of capital?

For bonds, what is the difference between expected and promised returns? Which is associated with the cost of debt? How do I calculate or estimate both?

For equity, why use a model rather than past average of excess returns? How do the models work? Is there an analogue to the yield on a bond that does not require a model? What are practical issues that arise when operationalizing the competing approaches? What are the statistical issues? What are the data problems?

#### Readings and assignments

Penman Chapter 18.  
Cornell Chapter 7.

#### **Week 4 (4/22): Estimating the Cost of Capital: The current state of the applied affairs (2). Valuation by multiples. Estimate the WACC for Edison International before you come to class.**

Finish questions from the previous class.

What is the cost of capital for Edison International? What do you see as the main uncertainties associated with your estimate?

What are security analysts? Who do they work for? What time of information do they provide? What recent controversy have they been involved in?

What assumptions must be made to do valuation by direct comparison? What are common multiples? To what observable variables are they applied?

#### Readings and assignments

Estimate the WACC for Edison International using public data sources  
Penman pages 76-82.  
Cornell Chapter 4.  
**Multiple valuation from industry source**

#### **Week 5 (4/29): Some tricky details. Where does value creation come from? How do you handle employee options? The valuation impact of liquidity. The valuation impact of control.**

We now know that value is created by residual earnings, but what produces residual earnings? What determines their duration? What companies have a long track record for producing residual earnings? What companies do not? Why? Does this present a problem for scientists working in industry? How do we forecast residual earnings in practice.

How are options currently accounted for? How do you deal with the cost of future options? How do you deal with the current stock of outstanding options?

What do we mean by “liquidity”? Why does liquidity have value? How great is the value of liquidity? How can a firm increase liquidity?

Does control have value? When and how much? Why is a premium often paid for control? What are synergies? Where do they come from? How are they measured?

#### Readings and assignments

Penman pages 273-277, 486-488.  
Cornell Chapter 8.

### **Week 6 (5/6): Event studies and their application in finance**

What is event study? What is meant by the event window? What are “abnormal” returns? How are they estimated?

#### Readings and assignments

MacKinlay article from course materials  
Microsoft-Yahoo reading from course materials

### **Week 7 (5/13): Corporate Control Transactions**

The menu of transactions – what is the difference between mergers, acquisitions, LBOs and spin-offs? How do you measure whether a transaction is a success? How do ex-ante measures of success differ from ex-post measures? What are possible reasons for transactions other than maximizing shareholder wealth? How can you tell if a transaction occurred for one of those reasons?

#### Readings and assignments

Weston: Chapters 6, 11, 13.

### **Week 8 (5/20): Session with Marty Willhite of Munger, Tolles on legal aspects of business transactions and evaluating contractual terms.**

This will also be an interactive session led by Mr. Willhite. One key theme – identifying and responding to optionality in contracts and transactions.

#### Readings and assignments

Judicial decision:

### **Week 9 (5/27): Session with Steve Walker of IdeaLab on venture capital and the evaluation of start-up businesses.**

This will also be an interactive session led by Mr. Walker. It will focus on the identification, evaluation and nurturing of an actual start-up business at IdeaLab.

#### Readings and assignments

Barley and Roberts (from course materials).  
Gompers and Lerner (from course materials).

#### **Week 10 (6/3): Case studies: Paramount takeover and Iridium start-up (only do valuation part of Iridium).**

All the questions will flow from case descriptions of two deals: the valuation of the satellite phone company, Iridium, at its inception and analysis of the takeover battle for Paramount between Viacom and QVC. The focus of my questions in the Paramount transaction will also be on valuation.

#### Readings and assignments

Case materials on Paramount and Iridium.