Topic 1

Chapter 1: Introduction to Corporate Finance

Key Concepts and Skills

Financial Markets - where securities are being bought and sold between businesses, investors and financial securities

Role of Financial Markets:

• To channel savings into investments

Money Markets - involve the trading of short-term debt securities (less than 12 months)

Capital Markets - involving the trading of long term debt securities and common shares (more than 12 months)

Primary Markets - involves the original sale of securities from companies (IPOs)

Secondary Markets - involve the trading of issued securities among investors on stock exchanges (ASX)

Goal of a Manager

- Board of directors are elected by the shareholders who are in charge of hiring a CFO and CEO
- Managers of publicly listed companies make decisions on behalf of shareholders, to maximize shareholder's wealth, or share price
- Main goal is to maximize shareholders wealth and share price

CFO Duties

- Capital Budgeting (Investment)
 - Making decisions on whether to invest in a project
 - Projects are profitable if cash inflows exceed cash outflows
- Capital Structure (Financing)
 - How should capital investment be financed
 - Debt-Equity ratio should be determined
- Dividend
 - If the business is successful, how much should we pay in cash dividends
 - Too low, shareholders loose confidence, too high, the company isn't investing enough in future endeavors

Investment

 Capital budgeting is the planning of capital investment in fixed assets to generate future cash flows

Criteria:

Input - future cash flows size, timing and risk

Output - profitable or unprofitable project?

Financing

 Financing decision - what should be the mix of debt and equity used to finance the firm's operations

Dividend

• If a company generates profits, how much should the company pay out to shareholders

Agency Problem

Agency Relationship

- Principal hires an agent to represent his/her interest
- Stockholders hire managers to run the company, the agent is stockholders / managers

Agency Problem

• Conflict of interest between principal and agent

Agency Cost - costs arising due to conflict of interests between owners and managers

Direct - corporate expenditure that benefit management but cost shareholders (e.g. purchasing unnecessary corporate jet)

Indirect - lost opportunity (e.g. not taking a risky but highly beneficial investment)

Managing the Managers (Corporate Governance)

- Managerial Compensation
 - Incentives can be used to align management and stockholder interests
- Corporate Control
 - Board of directors can fire a bad manager
 - Threat of a takeover

Chapter 2: Financial Statements

Balance Sheet

- Snapshot of the firm's assets and liabilities at a given point in time
- Balance Sheet Identity
 - Assets = Liabilities + Owner's Equity
- Net Working Capital
 - Current assets current liabilities

Liquidity - the ability to turn assets into cash quickly without loosing significant value

- Liquid firms are less likely to experience financial distress
- Liquid assets earn a lower return

Book Value - how much something is worth on paper

Market Value (realized) - how much something is worth to the market Debt vs Equity

Financial Leverage - whether to use debt financing to fund new projects

Example of a Balance Sheet

U.S. Corporation 2015 and 2016 Balance Sheets (\$ in millions)							
Assets			Liabilities and Owners' Equity				
	2015	2016		2015	2016		
Current assets			Current liabilities				
Cash	\$104	\$160	Accounts payable	\$232	\$266		
Accounts receivable	\$455	\$688	Notes payable	\$196	\$123		
Inventory	\$553	\$555	Total	\$428	\$389		
Total	\$1,112	\$1,403					
			Long-term debt	\$408	\$454		
Fixed assets							
Net plant & equipment	\$1,644	\$1,709	Owners' equity				
			Common stock and paid-in surplus	\$600	\$640		
			Retained earnings	\$1,320	\$1,629		
			Total	\$1,920	\$2,269		
Total assets	\$2,756	\$3,112	Total liabilities and owners' equity	\$2,756	\$3,112		

Income Statement

- Measures performance of a firm over a specified period of time
 - Revenues Expenses = Income

Use financial ratios to account for size of company differences

U.S. Corpe 2016 Income (\$ in mil	Statement		
Net sales		\$1,509	Sa
Cost of goods sold		750	- C - D
Depreciation		65	EI
Earnings before interest and taxes		694	
Interest paid		70	E
Taxable income		624	
Taxes		212	
Net income		\$412	
Dividends	\$103		
Addition to retained earnings	309		

Payout = Dividend / NI =

How to detect the underlying co. financial problem? Du Pont Identity

Du Pont Identity

Du Pont Identity:

 → Low ROE due to low Pricing (P-V), low Volume (Q) or low financial leverage

Chapter 3: Financial Ratios

Liquidity

- Current Ratio = Current Assets / Current Liabilities
- Quick Ratio (Cash + Accounts Receivable) / Current Liabilities

Financial Leverage

- Debt/Asset Ratio = Debt / Assets
- Debt/Equity Ratio = Debt / Equity
- Equity Multiplier = Total Assets / Equity

Asset Management

• Total Asset Turnover (ATO) = Sales / Total Assets

Profitability

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- Profit Margin (PM) = Net Income / Sales
- Return on Assets (ROA) = Net Income / Total Assets
- Return on Equity (ROE) = Net Income / Equity

Market Value Measures

- Market Value of Equity (MVE) Share Price x Shrout
- Earnings per Share (EPS) Net Income / Shrout
- PE Ratio Share Price / EPS
- Market-to-book Ratio (MB) Share Price / Book Value of Equity per share

Why Evaluate Financial Ratios?

- Internal Uses
 - Performance evaluations (compensation and comparison between divisions)
 - Planning for the future
- External Uses
 - Creditors, Stockholders
 - Suppliers, customers

Benchmarking

• Ratios need to be compared to benchmark

Time-Trend Analysis - used to see how the firm's performance is changing through time (historical ratios)

Peer Group Analysis - compares to similar companies within the industry in the same year

Potential Problems

- There is no underlying theory so there is no way to know which ratios are most relevant
- Benchmarking is difficult for diversified firms
- Varying accounting procedures
- Different fiscal years