### ECONOMICS 201 WEEK 5: FINANCE Overview

## CAPITAL

Capital

• Physical capital

• Financial Capital

• Human capital

## PURCHASING CAPITAL

Mow do firms raise money to purchase capital?

- Equity Finance
  - Firm pays for capital out of its own funds.
- Oebt Finance.
  - Firm borrows money to pay for capital.

# EQUITY FINANCE

- Equity means having an ownership right.
- Example:
  - An individual starts a small business and uses his/her own money (savings).
- Example:
  - A large business decides to purchase new capital from the profits (retained earnings).
  - Retained earnings are profits that are <u>not</u> distributed to shareholders as dividends.

## DEBT FINANCE

Borrowing funds to purchase capital.

- Example :
  - An individual gets a loan from a bank to start a business or purchase capital.
  - Individual signs bank "note" and provides collateral.
  - Collateral: If individual fails to repay loan to bank, the bank gets the business (or new capital equipment).

## MARKETS FOR FINANCIAL ASSETS

#### Financial asset

- Promise to pay future income in some form
  - Future profits or future interest payments
  - Stocks and bonds
- Firms
  - Get the funds to purchase capital
  - By issuing and selling financial assets.

## FINANCIAL MARKETS

- Firms raise money for capital in financial markets.
- Financial Market:
  - Commodity being sold: a financial asset.
  - 2 types of financial markets;
    - Equity markets (Stock Market)
    - Debt markets (Bond Market)

# THE STOCK MARKET

#### Share of stock

- A share of ownership in a corporation
- Oividends
  - The part of a firm's current profit that is distributed to shareholders
- Capital gain
  - Return from selling an asset for more than was paid for it.

# THE STOCK MARKET

#### Stock prices

- Very volatile driven by expectations about the future.
  - Perceptions of <u>expected</u> future profits earned by firm.
  - Perceptions of <u>expected</u> future gains or losses in share prices.
  - Perceptions of <u>expected</u> risk.
  - Perceptions of <u>expected</u> changes in other asset prices.

Corporate Bond

\$1000

10%

2050

#### Bond

- Promise to pay back borrowed funds issued by a corporation or government.
- Principal (face value)
  - Amount of money a bond promises to pay when it matures

#### Coupon

 Series of periodic payments that a bond promises before maturity, i.e. The bond at left will pay 10% of \$1000 = \$100 per year until maturity.

#### Maturity date

Date at which a bond's principal amount will be paid to the bond's owner.

## Bond Prices and Interest Rates

Corporate Bond

\$1000

10%

2050

Coupon is \$100 per year.

What if interest rates fall to 5%?

- This bond would be worth *more* than \$1000.
- Price increases until current yield = current market rates.

 Annual rate of return a bond earns for its current owner.

Corporate Bond

\$1000

10%

2050

Ourrent market yield = 5%

Yield = Coupon/Price<sub>b</sub>

- 5% =  $$100/Price_{b}$
- Price<sub>b</sub> = \$2,000

 The current owner would offer the bond for sale at a price of \$2000.

Corporate Bond

\$1000

10%

2050

- Current market yields = 5%
  - 5% = \$100/Price<sub>b</sub>
  - Price<sub>b</sub> = \$2,000
- Ourrent market yields = 20%
  - 20% = \$100/Price<sub>b</sub>
  - Price<sub>b</sub> = \$500
- Inverse relationship between bond prices and interest rates.
- When interest rates <u>fall</u>, bond prices <u>rise</u>.
- When interest rates <u>rise</u>, bond prices <u>fall</u>.

## MARKETS FOR FINANCIAL ASSETS

### Primary market

- Newly issued financial assets are sold for the first time
- Secondary market.
  - Previously issued financial assets are sold.

### PRIMARY AND SECONDARY ASSET MARKETS



- Why do bond yields differ?
  - Default risk
    - Default = company will not be able to buy back the bond at maturity. i.e. the bond becomes worthless.
    - The greater the risk of default
      - The lower the bond's price
      - The greater its yield. i.e. bonds have to offer a better yield in order to compensate buyers for risk.