## Economics 201 Week 5: Finance Overview

(0) Capital

- Physical capital
- Financial Capital
© Human capital


## Purchasing Capital

© How do firms raise money to purchase capital?
© Equity Finance
© Firm pays for capital out of its own funds.
© Debt 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 not 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.
(0) 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
(0) Dividends
- 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 expected future profits earned by firm.
- Perceptions of expected future gains or losses in share prices.
- Perceptions of expected risk.
- Perceptions of expected changes in other asset prices.


## The Bond Market

## 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 <br> 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.
©Yield
-Annual rate of return a bond earns for its current owner.


## The Bond Market

## Corporate Bond

\$1000
10\%
2050
© Current market yield $=5 \%$
© Yield = Coupon/Price ${ }_{b}$
© $5 \%=\$ 100 /$ Price $_{b}$

- Price $=\$ 2,000$
© The current owner would offer the bond for sale at a price of $\$ 2000$.


## The Bond Market

## Corporate Bond

\$1000
10\%
2050

## © Current market yields $=5 \%$

> © $5 \%=\$ 100 /$ Price $_{\mathrm{b}}$
> © Price $_{\mathrm{b}}=\$ 2,000$
(0) Current market yields $=20 \%$
© $20 \%=\$ 100 /$ Price $_{b}$
(- Price $_{\mathrm{b}}=\$ 500$
© Inverse relationship between bond prices and interest rates.
© When interest rates fall, bond prices rise.
(0) When interest rates rise, bond prices fall.

## 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

Primary Market Sale


## The Bond Market

## © 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.

