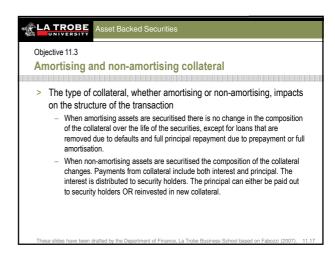
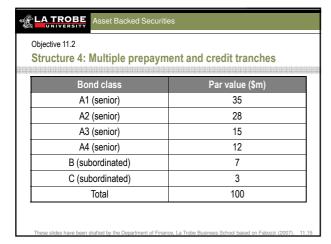
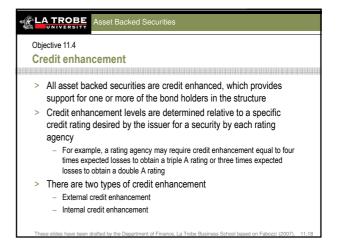


LA TROBE Objective 11.2 Structure 4: Multiple prepayment and credit tranches The SPV might raise the funds to purchase the instalment sales contracts by selling certificates in a range of different credit and

- prepayment tranches, each with a par value of \$1,000 per certificate
- The Class A bonds are senior bonds, ranking prior to the subordinate Class B bonds, which rank prior to subordinate Class C bonds
- Class A bonds are further tranched according to their ranking for repayment of principal
- This structure redistributes the credit risk, so as to reduce the credit risk of Class A holders at the expense of Class B and C holders
- It also redistributes the prepayment risk among senior bond holders



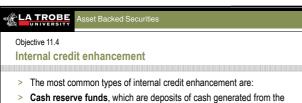




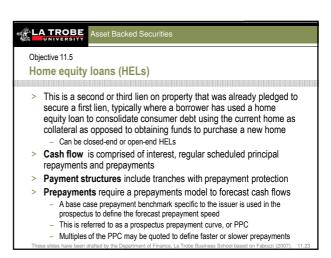


- Monoline insurance policy, which may provide timely payments of interest and principal up to a specified amount should the issuer fail to make the payments. Unlike municipal bond insurance, the monoline insurance policy only guarantees up to a specified portion of the principal, say 5%, rather than the entire principal
- Letter of credit from a bank
- Guarantee from the seller of the assets
- The latter two forms of credit enhancement are less common, based on the "weak link approach" employed by the rating agencies.
 - This means that credit enhancement is only as strong as the weakest link in the enhancement mechanisms, regardless of the quality of the underlying assets.
 - Most banks (that offer letters of credit) and companies (serving as guarantor) are unlikely to have a high enough credit rating for the desired enhancement



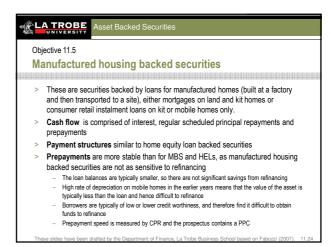


- issuance proceeds
- > Excess spread accounts, which are cash deposits generated from the allocation of excess spread after paying out the net coupon, servicing fee and all other expenses on a monthly basis
- > Overcollateralization, which is the difference between the amount paid for the assets (which equals the par value of the securities) and the market value of the assets
- Senior-subordinate structure, where subordinate tranches provide credit enhancement for senior tranches.





- value. The premium over par value is eventually distributed to the seller of the
- Percent of collateral call, where the outstanding bonds can be called at par if the collateral's balance falls below a predetermined percent of the origina collateral balance
- Percent of bond call, where the outstanding bonds can be called at par if the outstanding bond's par value relative to its original par value falls below a specified amount
- Insurer call, permits the insurer to call if the collateral's cumulative loss history reaches a predetermined level





sset Backed Securities

Objective 11.5

Auto loan backed securities

- These are securities backed by loans made to purchase a car. They represent about 18% to 25% of the asset backed securities market in the US
- Issued by financial subsidiaries of auto manufacturers, commercial banks and independent finance companies. The market is tiered, based on the credit quality of the borrowers
- > Cash flow is comprised of interest, regular scheduled principal repayments and
- Prepayments result from sales and trade-ins requiring full payoff of the loan, repossession and subsequent resale, loss or destruction of the vehicle covered by an insurance claim, payoff of the loan with cash to save on interest, or refinancing of the loan at a lower rate
 - Prepayments due to repossession and subsequent resale are sensitive to the economic cycle
 - Refinancing is only a minor issue because the interest rates for some deals are substantially below market rates since they are offered by manufacturers as part of sales promotions.
- as part of sales profitorioris.

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et Backed Securities

Objective 11.5

SBA backed securities

- These are securities backed by loans made by the Small Business Administration, which is an agency of the US government, to qualified borrowers.
- > Loans are backed by the full faith and credit of the US government
- Cash flow is comprised of interest, regular scheduled principal repayments and prepayments
- > The interest rate on the loans is typically floating indexed to the
- Prepayments tend to be greater for loans with maturities of less than 10 years made for working capital purposes, whereas loans backed by real estate tend to prepay at a slower speed

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LA TROBE UNIVERSITY Asset Back

Objective 11.5

Auto loan backed securities

Prepayments for auto loan-backed securities are measured in terms of the absolute prepayment speed (ABS). The ABS is the monthly prepayments expressed as a percentage of the original collateral amount. The SMM (monthly CPR) expresses prepayments based on the prior month's balance:

$$SMM = \frac{ABS}{1 - [ABS \times (M - 1)]}$$

$$SMM$$

 $ABS = \frac{SMM}{1 + [SMM \times (M-1)]}$

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LA TROBE

sset Backed Securities

Objective 11.

Credit card receivable backed securities

- These are securities backed by credit card receivables, and are issued by banks (Visa and Mastercard), retailers and travel and entertainment companies (American Express).
- Cash flow is comprised of finance charges, fees and principal after the expiry of the lock-out period, during which principal payments are reinvested
- > The interest rate on the securities may be fixed or floating
- Payment structures include a passthrough structure, a controlled amortization structure and a bullet payment structure
 - Passthrough structure pays principal on a pro rata basis
 - Controlled amortization structure pays the lesser of a scheduled minimum principal payment and the pro rata amount
 - Bullet structure makes a single payment of principal

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LA TROBE Asset Backet

Objective 11.5

Student loan backed securities (SLABS)

- These are securities backed by loans made to cover university costs and costs of a wide range of vocational and trade schools. Loans are typically guaranteed by the government up to 98%. Sallie Mae (a government sponsored entity) is the major issuer of SLABS
- Cash flow is comprised of interest, regular scheduled principal repayments and prepayments; however, no cash flow occurs until six months after graduation
- The interest rate on some of the loans is floating indexed to a 3-month Treasury bill rate. A large percentage of SLABS are indexed to LIBOR.
- Prepayments result from defaults (via the government guarantee) or loan consolidation when the student who has loans over several years combines them into a single loan.
- > **Deferment period**: no payments are made by the student on the loan when they are in school.
- > Grace period: usually six months after the student leaves school.

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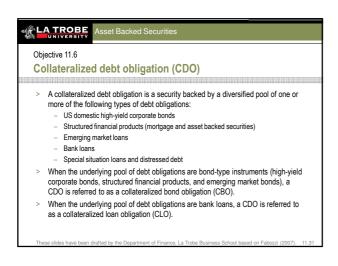
Asset Backed Securities

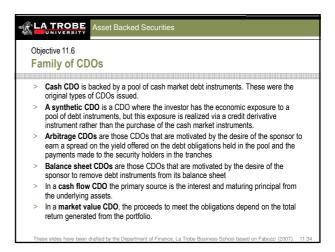
Objective 11.5

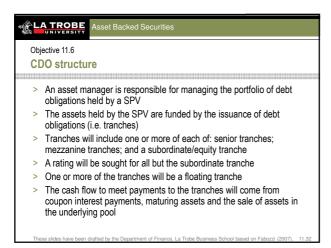
Credit card receivable backed securities

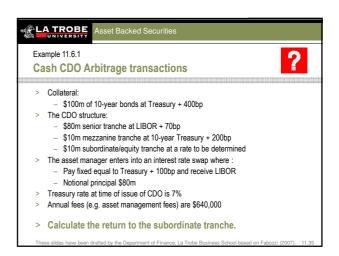
- Performance of a portfolio of receivables is assessed with reference to:
- > The **net portfolio yield** with the WAC (or average yield)
 - Gross portfolio yield includes finance charges collected and fees
 - Charge-offs represents amounts charged off as uncollectable (bad debts)
- Net portfolio yield = gross portfolio yield charge-offs
 The monthly payment rate (MPR)
- Represented by the monthly payment (including finance charges, fees and any principal repayment) of a credit card receivable divided by the credit card debt outstanding in the previous month
- MPR is an important indicator, as low MPRs may have extension risk effects or lead to activation of early amortization triggers

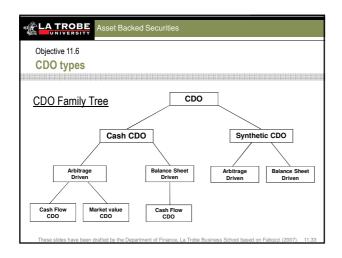
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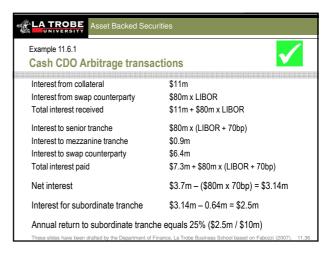


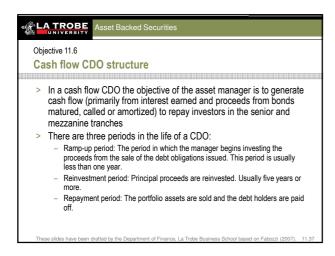


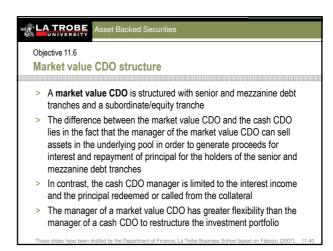


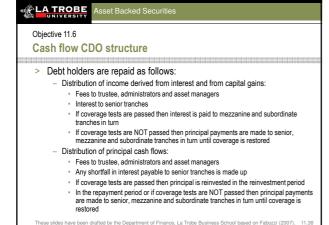


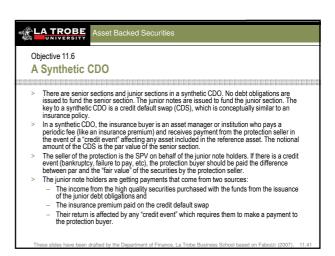


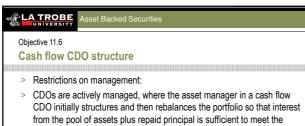












- obligations of the tranches.
- > For cash flow CDOs there are two types of tests:
 - Quality tests: This type of test is related to the diversity of the assets. This includes 1) a minimum asset diversity score 2) a minimum weighted average rating and 3) maturity restrictions.
 - Coverage tests: This type of test is to ensure that the performance of the collateral is sufficient to make payments to the various tranches. This includes par value tests and interest coverage ratio tests

