Average college senior has \$2,800 in credit card debt

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Even assuming no more new debt, if you make the minimum monthly payment, it will take about 30 years to pay it all off

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Credit and Credit Cards

The new 8,000,000GB iPod - \$349 The new Blueberry Razr - \$150 Having no credit card debt – priceless There are some things MasterCard can't buy; for everything else, there's cash

Credit cards Give you the ability to live (temporarily) well beyond your means Verage college senior has \$2,800 in credit card debt Output Beven assuming no more new debt, will take about 30 years to pay it all off (\$7,000) Copyright 02007 Stephen G. Buell

Consumer credit Used by people for purchases other than a house (mortgages are separate category) Two types of consumer credit Installment loans Borrower pays regular equal amounts periodically Car loans, school loans, Best Buy's home theater Car loans, school loans, Best Buy's home theater Car loans, school loans, Best Buy's home theater Car loans – our focus Single payment loans Open-ended credit Cerdit cards

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Non-installment loans

□Single payment

 Borrow \$1,000 and agree to repay \$1,100 in one year => 10% interest

Open-ended or revolving credit

- Credit is extended before any transaction
 Pre-approved maximum or limit
- No need to reapply each time if below limit
 Credit cards

Revolving credit account





Still another reason to borrow

□For consolidating debts

Decrease monthly payment but increase term (good?)



One possible bad result of credit

Having to pay high interest rates

- Using APR's (Annual Percentage Rates) can be misleading
 Differences in compounding frequencies and
- Use EAR's (Effective Annual Rates)
- Considers the frequency of compounding \square EAR = (1+APR/freq)^{freq} – 1
- When choosing between different loans
 Compare EAR's and pick lowest

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Misleading APR's

- Choosing between Loans A and B $\Box APR_A = 8\%/yr$ comp daily $\Box APR_B = 8.15\%/yr$ comp semi-annually $\Box APR_B > APR_A$, but...
- EAR_A = (1+.08/365)³⁶⁵ 1 = 8.33% □1=>PV 8/365=>i 365=>n solve FV=1.0833 □1.0833 - 1 = .0833 = 8.33%
- $EAR_B = (1+.0815/2)^2 1 = 8.32\%$
- Slightly better off borrowing with Loan B

More bad things about borrowing

High fees and interest rates

- Annual credit card fees of \$25 to \$50/yr
- Punitive fee of \$10 to \$25 for late payment
- Punitive interest rates if late payment

Temptation to overspend

Easy to live beyond your means (for a while)

 You're stuck with high minimum payments that often get worse as you borrow on a second card to pay the monthly payment of the first card

Reduces your ability to buy a house

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Types of open-ended credit

Used for purchasing goods and services on credit at stores

□Used for cash advances at ATM's

Usually in form of credit cards

- Bank cards (Visa and MasterCard)
- Store credit cards (Macy's, Best Buy)
- Gasoline credit cards (Exxon, Shell)
- The most abused form of credit

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Credit cards

Allow you to carry a balance from month to month

 Only need make minimum monthly payment
 Covers previous month's interest + teensy payment of the outstanding principal or amt owed
 Lender doesn't want you to pay off balance
 Wants you to make only the minimum payment

- Duh?? Interest on unpaid balance is near legal max
 Some people carry a balance for years
 - □Stupid

Bank cards

Visa, MasterCard, Discover and Optima (AMEX)
 Open-ended credit accounts issued by financial institutions

- Commercial banks, S&L's, credit unions
 These guys are the actual lenders
- Visa and MC are service providers
 These guys don't lend you anything
 Just maintain electronic records and process transactions
- Banks, S&L's and merchants pay fees to Visa & MC

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Cash advances

Can use Visa & MC at ATM's for cash

- But you pay transaction fees and higher APR's than on purchases
 Interest charges begin immediately on cash adv
 No interest on purchases if you pay off balance
- Mail out "convenience checks" that you can use to buy things with (duh!)

Not checks but gimmick to entice cash advances
 Bank wants you to take a cash advance since the APR is so high

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Metal credit cards

□Nothing special about "metal" cards

- Visa Gold, MC Platinum, etc.
- Give you higher spending limits
- □You probably passed some stiffer credit check □Not a big deal

 If you've been a good on-time-payer, they'll raise your limit anyway just by calling customer service

Remember, the lender wants you to use your new Platinum card – high APR

Store charge cards

□Gasoline, department stores, Best Buy □Encourage you to shop more with them

 Often entice you with 10% off initial purchase
 Want you to buy a lot and NOT pay off your balance

- They make a high rate who
- They make a high rate when you don't payCareful about spending beyond your means
- Just adds another monthly payment which you should be able to avoid

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"It's OK to leave home without it"

American Express, Diner's Club, Carte Blanche

- Charge cards, not credit cards
- Require balance be paid off each month
- Prestigious"??? gimme a break
- \$60 annual fee and not accepted everywhere "At the Winter Olympics you'll see death defying ski jumping ... but bring your Visa, because the Olympics will take your breath away but it won't take American Express"

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Even though credit cards are so bad,

You should still get a Visa and a MasterCard

Once you get your first full-time job

- Apply for a Visa and/or a MasterCard
 It's a good thing to get them just be careful
- Make a couple of <u>small</u> purchases with them for a couple of months
- Pay off the balances early or at least on time
 Need to establish a credit history and your credit rating
 - Key for applying for car loans and mortgages

Extra credit Service credit Electric company or TV cable company provides service in advance - expects payment within 15 days. You should definitely consider a constant payment plan (budget plan) for power companies It predictable even months + 12th adjustment up or down Basier to budget for (Watch out for AC in July, August). You should consider paying for cable a year in advance to get lower monthly rate

Credit application process

Application asks you to list your income, bank accounts and outstanding debts

Lender (bank, merchant, utility, etc) runs a credit check on you

- Obtains *credit report* from a *credit bureau*
- How does the local credit bureau know anything about you?

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Big brother is watching

Lender pays fee to the local credit bureau for each credit report it requests

 Lender is charged lower fees in return for providing info on its borrowers' repayment histories

□Builds the credit bureau's database □2,000 local credit bureaus belong to national

network that shares its info with other members 160 million people in database

How do you rate?

What's your credit rating or credit score?
 Statistical measure of how good a risk you are based on:

- Your prior credit usage, repayment patterns, income, length of employment, home ownership status
- The better your score, the lower the interest rate
 Easier to get credit and at better rates
- Somewhere out there is a lender for everyone
 But it could be at a very high rate
 - Car dealer radio ads "Bad credit? No credit? Here at Crazy Eddie's Motors, we don't care! C'mon in!"
 18% for a car loan???

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Check it out You can get a free credit report once a year at www.annualcreditreport.com

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You got your own credit card

□Now what?

You charge some stuff on it

□Now what?

- The merchant notifies Visa or MasterCard
 Nowadays probably the same day
- Visa or MC posts it to your account

□Now what?

 A few days later Visa or MC sends you a monthly statement

Know your credit card statement

Billing date => cut-off date for transactions
 Anything after this date goes on next statement

- Due date => 20 to 25 days after billing date
 - Must pay by due date or be charged \$10 to \$15 late fee and credit bureau is possibly notified
- □ Transaction date =>actual day of purchase
- Posting date => when credit card company was notified and "posted" the sale
- No interest on purchases between posting and due dates (grace period) ONLY IF PREVIOUS MONTH'S BILL WAS PAID IN FULL
 - Otherwise interest is charged from posting date

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Pay it off

Dinimum payment is specified

- Very small and mostly all interest charges
- Want you to continue to carry high balance
- For example: \$700 balance has minimum payment of only \$15.00 with finance charges of \$10.50 (paying only 4.50 to reduce the 700) \Box If APR = 18% (monthly rate is 18/12 = 1.5%) \Box Interest = .015 x 700 = \$10.50 \Box EAR = (1 + .18/12)¹² - 1 = 19.6% per year

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Be the other 1/3

□2 out of every 3 college students have credit card debt of over \$2,500

- □At APR=18%, first year's finance charges are .18 x 2,500 = \$450
 - If balance is not reduced, that's almost \$7,000 over the next 15 years

□No grace period on new purchases if you have an unpaid balance

□Not only is carrying a balance costly ...

You didn't want that house anyway

Banks usually allow a max of 40% of your gross income for debt payments

- □ If your earn \$48,000/yr or \$4,000/mo
 - Max of \$1,600/mo in debt payments
 - Assume 30-year mortgage at 8%/yr
 - Can borrow 1,600(PVIF_a-8/12-360)=\$218,000
- But have \$500/mo car and credit card payments
 - Max of \$1,100/mo mortgage payment
 - Can borrow only 1,100(PVIF_a-8/12-360)=\$150,000
 - Your dream house shrinks by \$68,000

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The best investment you can make

Pay off your credit card balance as soon as you can

Credit card interest rates are **usurious** and **draconian** - avoid carrying a balance

■Paying off your credit card debt with a 18% interest rate is the same as investing your money at 18%