Lecture 11: Consumption, Savings, and INVESTMENTSee Baird Ch. 7

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HOUSEHOLD BUDGET CONSTRAINT



 Given real income, tradeoff between consumption and expenditure

HOUSEHOLD BUDGET CONSTRAINT

Put Figure 7.1 here

CHANGING THE PROBLEM

- ▶ We talk about "real savings" and "real consumption"
- But this is silly: people don't care about "real savings." They care about consumption.
- Consumption today vs. consumption tomorrow.
- Let's think about two periods, and two period budget constraints

Two periods-I



Things with subscript 0 are preset

- Things with subscript 1 are decided in the first period
- Things with subscript 2 are decided in the second period

$$C_{1} + \left(\frac{B_{1}}{P} + K_{1}\right) - \left(\frac{B_{0}}{P} + K_{0}\right) = \left(\frac{w_{1}}{P}\right)L + i_{0}\left(\frac{B_{0}}{P} + K_{0}\right)$$
$$C_{2} + \left(\frac{B_{2}}{P} + K_{2}\right) - \left(\frac{B_{1}}{P} + K_{1}\right) = \left(\frac{w_{2}}{P}\right)L + i_{1}\left(\frac{B_{1}}{P} + K_{1}\right)$$

Two periods-I



Things with subscript 0 are preset

- Things with subscript 1 are decided in the first period
- Things with subscript 2 are decided in the second period

$$C_{1} + \left(\frac{B_{1}}{P} + K_{1}\right) - \left(\frac{B_{0}}{P} + K_{0}\right) = \left(\frac{w_{1}}{P}\right)L + i_{0}\left(\frac{B_{0}}{P} + K_{0}\right)$$
$$C_{2} + \left(\frac{B_{2}}{P} + K_{2}\right) - \left(\frac{B_{1}}{P} + K_{1}\right) = \left(\frac{w_{2}}{P}\right)L + i_{1}\left(\frac{B_{1}}{P} + K_{1}\right)$$

Two periods-II

$$\left(\frac{B_1}{P} + K_1\right) = \left(\frac{B_0}{P} + K_0\right) + \left(\frac{w_1}{P}\right)L + i_0\left(\frac{B_0}{P} + K_0\right) - C_1$$

$$C_2 + \left(\frac{B_2}{P} + K_2\right) - \left(\frac{B_1}{P} + K_1\right) = \left(\frac{w_2}{P}\right)L + i_1\left(\frac{B_1}{P} + K_1\right)$$

Becomes:

$$C_2 + \left(\frac{B_2}{P} + K_2\right) - \left(\frac{B_1}{P} + K_1\right) = \left(\frac{w_2}{P}\right)L + i_1\left(\frac{B_1}{P} + K_1\right)$$