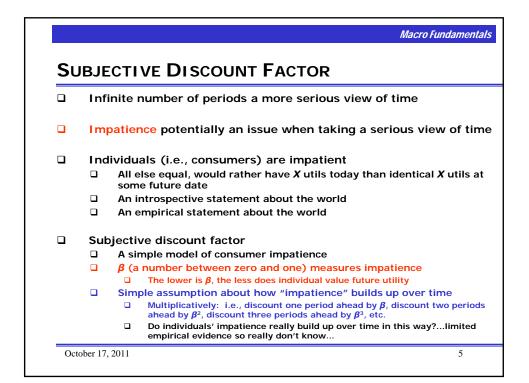
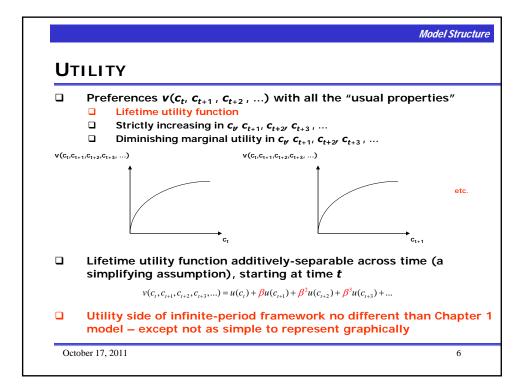
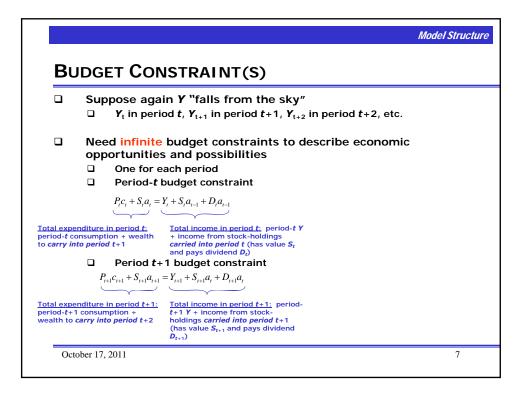


	Tim	neline d	of events				
	a _{t-1}	period	events during a _t t: income, tion, savings	Economic events during period t+1: income, consumption, savings	atri	Economic events during period #+2: income, consumption, savings	a _{tv2}
	I	Pe	riod t	Period <i>t</i> +1	I	Period <i>t</i> +2	I
"defining ures" of k		c_{t+1} : consumption in period $t+1$ P_{t+1} : nominal price of consumption in period $t+1$ Y_{t+1} : nominal income in period $t+1$ ("falls from the sky") a_t : real wealth (stock) holdings at beginning of period $t+1/\text{end of p}$ s_{t+1} : nominal price of a unit of stock in period $t+1$ n_{t+1} : nominal dividend paid in period t by each unit of stock held at th $t+1$ n n_{t+2} : net inflation rate between period $t+1$ and period $t+2$					-
				$\pi_{t+2} = \frac{P_{t+2} - P_{t+1}}{P_{t+1}} \left(= \frac{P_{t+2}}{P_{t+1}} \right)$	-1)		

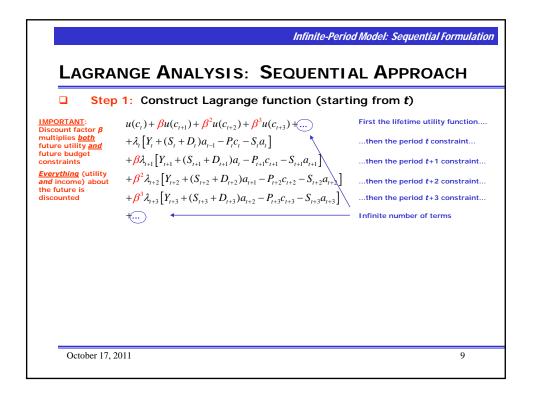
Tim	eline of events	Economic events during a _{re}	 Economic events during 	a _{t+2}
Ĺ	period £ income, consumption, savings	period t+1: income, consumption, savings	period #-2: income, consumption, savings	
I	Period <i>t</i>	Period <i>t</i> +1	Period t+2	I

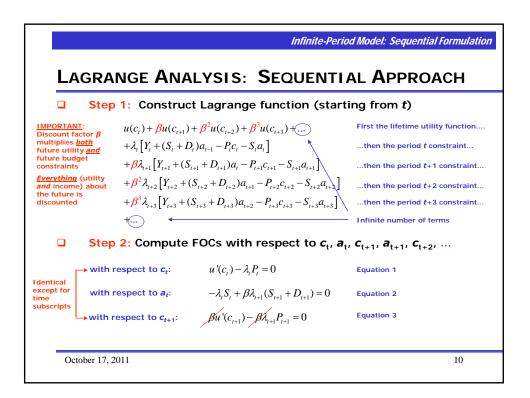


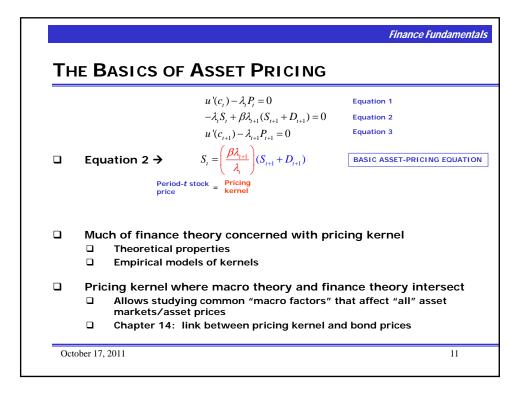




	Suppose again Y "falls from the sky" Y_t in period t, Y_{t+1} in period t+1, Y_{t+2} in period t+2, etc.
	Need infinite budget constraints to describe economic opportunities and possibilities Dividend income during period t (a flow) One for each period Savings during period t (a flow) Period-t budget constraint Image: Constraint during period t (a flow)
	$P_{i}c_{i} + S_{i}a_{i} = Y_{i} + S_{i}a_{i-1} + D_{i}a_{i-1}$ can rewrite as $P_{i}c_{i} + S_{i}(a_{i} - a_{i-1}) = Y_{i} + D_{i}a_{i-1}$
eriod-t c	Inditure in period t; Total income in period t; Formation period t; Savings during period t+1 ito period t+1 income from stock-holdings and pays dividend D; period t+1 (a flow) Dividend income during period t+1 (a flow)
	Period $t+1$ budget constraint $P_{t+1}c_{t+1} + S_{t+1}a_{t+1} = Y_{t+1} + S_{t+1}a_t + D_{t+1}a_t$ can rewrite as $P_{t+1}c_{t+1} + S_{t+1}(a_{t+1} - a_t) = Y_{t+1} + D_{t+1}a_t$
eriod-t+	$ \begin{array}{llllllllllllllllllllllllllllllllllll$







Т⊦	E BASICS OF	Asset Pricing		
		$u'(c_{t}) - \lambda_{t}P_{t} = 0$ - $\lambda_{t}S_{t} + \beta\lambda_{t+1}(S_{t+1} + D_{t+1}) = 0$ $u'(c_{t+1}) - \lambda_{t+1}P_{t+1} = 0$ (\begin{aligned}(B\lambda)	Equation 1 Equation 2 Equation 3	
	Equation 2 -> Period-f	$\begin{split} S_{t} = & \left(\frac{\beta \lambda_{t+1}}{\lambda_{t}}\right) (S_{t+1} + D_{t+1}) \\ \text{stock} = & \underset{\text{kernel}}{\text{Pricing}} \times & \underset{\text{return}}{\text{Two components:}} \\ & \frac{\text{Two components:}}{1. \text{ Future price of}} \\ & 2. \text{ Future dividend} \end{split}$		
	Theoretical pr			
	Pricing kernel where macro theory and finance theory intersect			
	5.5	t? idend in the future may rise in the future: S_{t+1}/ 3	5, > 1 is "capital gain"	

