Panel Data Methods	
$y_{ii} = \beta_0 + \beta_I x_{itI} + \ldots + \beta_k x_{iik} + u_{ii}$	
1. Basic	
Econometrics	1

Cl	1.13 Pooling & Panel Data Methods
1.	Pooling Independent Cross Sections across Time
2.	Policy Analysis with Pooled Cross Sections
3.	Two-Period Panel Data Analysis
4.	Policy Analysis with Two-Period Panel Data*
5.	Differencing with More than Two Time Periods
	Econometrics 2



13.1 Pooled Cross Sections		
R	eason for using pooled cross sections is	
۲	To get bigger sample sizes	
۲	To investigate the effect of time	
	See example 13.1	
۲	To investigate whether relationships have changed over time	
	 Interaction term 	
	See example 13.2	
	The Chow test for structural change	
	Econometrics 4	









15.5 Difference	ing with Multiple Periods
♦ A general fixe	d effect model (T=3)
$y_{it} = \delta_1 + \delta_2 d2_t + \delta_3$	$d3_t + \beta_1 x_{it1} + \dots + \beta_k x_{itk} + a_i + u_{it}$ (13.28)
♦ We can simply	y estimate by OLS, assuming
the Δu_{it} are unc	correlated over time.
$\Delta y_i = \delta_2 \Delta d2_t + \delta_2 \Delta d2$	$\beta_3 \Delta d\beta_1 + \beta_1 \Delta x_{i1} + \dots + \beta_k \Delta x_{ik} + \Delta u_i$
 So if 3 period 2, period 2 fro per individual 	s, then subtract period 1 from period m period 3 and have 2 observations