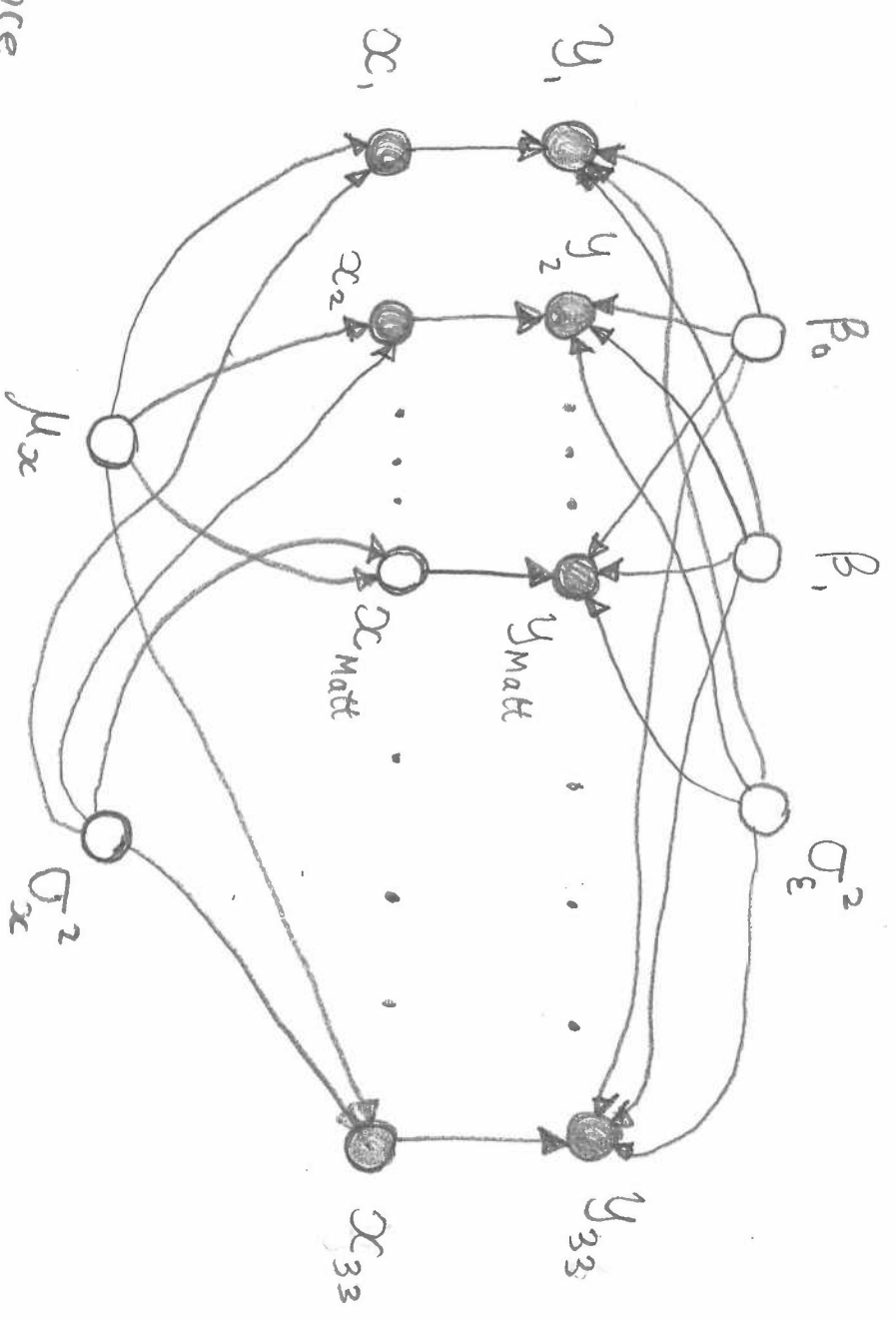


37457
 CLASS 5
 2nd hour example

x = home to UTS distance
 (Kilometres)

y = travel time from home
 to UTS (minutes)



$$y_i | x_i, \beta_0, \beta_1, \sigma_\epsilon^2 \sim \text{ind. } N(\beta_0 + \beta_1 x_i, \sigma_\epsilon^2)$$

$$x_i | \mu_x, \sigma_x^2 \sim \text{ind. } N(\mu_x, \sigma_x^2)$$

"non-informative" prior distributions on $\beta_0, \beta_1, \sigma_\epsilon^2, \mu_x, \sigma_x^2$