Course Goals

- Understand when to use regression analysis
  - Confounding, stratification (effect modification)
  - Basic uses of regression

- Be able to use STATA/R to carry out appropriate regression

- Understand the theoretical aspects of regression
  - Assumptions of the methods and limitations

- Specific regression topics
  - Splines, lowess, flexible modeling of covariates
  - Bootstrapping and sensitivity analysis
  - Predictive models and model validation