

## Course Goals

1. To read graphs critically.
  - Is a graph drawn well?
  - How can a graph be improved?
  - What information does a plot communicate?
  - What information should it communicate?
2. To become familiar with many different plots and graphical tools. For example
  - Scatterplotsand plots for
  - Univariate Data
  - Regression Analysis
  - Multivariate Data
  - Longitudinal Data
3. To learn how to design and produce good graphics.
4. To gain a basic understanding of regression.
  - Linearity
  - Residuals
  - Coefficients
  - Smoothers
  - Dependence
5. To gain practice in exploratory data analysis.
6. To learn R and R graphics.

## Learning Objectives

1. To be able to critically evaluate tables and graphics.
2. To become familiar with many different plots and graphical tools.
3. To learn how to design and produce good graphics.
4. To learn about and practice exploratory data analysis.
5. To learn R and R graphics.