Boston University
Department of Mathematics and Statistics

# MA575 – Fall 2018
Linear Models
Lab Session 1:  Introduction to R

In this course you will learn to build regression models. Regression is commonly used for the purposes of prediction, inference and to determine statistical   relationships between the variables (statistical significance). R is a commonly used statistical software. In this lab you will download, install and try out R.

**Pre-lab activities**

1.  In this course we will be using R. As a preliminary activity download and install R from

    https://www.r-project.org/

    Download and install the graphical user interface R-studio for R from

    https://www.rstudio.com/

2. **Lab activities**

1. Make sure you have R and R-studio installed.

2. All the data and scripts from the book have been moved from the original link www.stat.tamu.edu/~sheather/book. They are now located at

   http://gattonweb.uky.edu/sheather/book/

   We strongly encourage to run the R scripts of the book as you read it.

3. **Tutorials:** From

   "Content -> Project and Lab Materials -> RTutorials"

   run the R script *Basic_Statistics.R.*

   Modify the script *Reading_in_Files.R* to load the Kids data from your current directory.

**Post-lab activities**

1. Try out more of the tutorials in "Content -> Project and Lab Materials -> RTutorials"

2. Checkout https://www.r-project.org/help.html in the R website.