

Class Schedule	
Day 1: a) Installation and set-up of R and R Studio b) How to install R packages c) Basic computation in R d) R variables e) R basic data types f) Useful functions	Day 2: a) Importing Data b) Exporting Data c) Variable labels/Value labels d) Getting information from a dataset e) Missing data f) Date values
Day 3: a) Variable and Data management b) Sorting data c) Merging data/Aggregating data d) Sub-setting data e) Random samples f) Operators and Built-in functions	Day 4: a) Statistical probability function b) User-written function c) Control Structures d) Data type conversion e) Basic Statistics f) Descriptive Statistics
Day 5: a) Frequencies, Crosstabs, and Chi-square test b) Hypothesis c) ANOVA d) T-tests/ Tests of independence e) Measures of association f) Visualizing results	Day 6: a) Correlations and Visualizing Correlations b) Nonparametric tests c) Regression analysis d) Fitting the model e) Diagnostic plots f) Comparing models
Day 7: a) Variable selection b) Multiple comparisons c) Creating a graph d) Visualizing results e) Regression diagnostics f) Homogeneity of variances	Day 8: a) Introduction to ggplot2 b) Beyond Linear/Logistic regression
Module 2 (with Project): a) Project Plan b) Each group will supervise to complete their project c) The trainers will discuss in meeting weekly once with each group d) The trainers will available for short discussion any time in this period e) Research article write-up and publication	