

Lecture and Reading Schedule (Approximate): The R Language and Environment for Statistical Computing

Lecture Topics/Related Reading

Introduction to STAT604. The R User Interface and Environment, R Operators and Command Syntax

R Objects and Data Types, Working with Vectors

Matrices, Arrays and Data Frames

Working with character data

Reading Data into R

Graphical procedures

Flow Control

Creating User-defined Functions

Distributions and Sampling

Best Practices - SAS Wow! (Link in Resources Section of Canvas)

SAS Software

SAS01 Overview of SAS Foundation User Interfaces and SAS Programs

SAS02 Working with SAS Data Sets and Data Libraries

- SAS03 Reporting and the Output Delivery System
- SAS04 Creating SAS Data Sets
- SAS05 Identifying errors, SAS Data Step Processing
- SAS06 Creating and Managing Variables
- SAS07 SAS Date and Time Values
- SAS08 Using Functions
- SAS09 Reporting and Sorting

- SAS10 SAS Formats and Informats
- SAS11 By Group Processing
- SAS12 Combining SAS Data Sets
- SAS13 Do Loops
- SAS14 SAS Arrays – SAS Help-> Dictionary of SAS DATA Step Statements-> Array Statement, Restructuring Tables
- SAS15 Descriptive Statistics
- SAS16 PROC TABULATE and UNIVARIATE
- SAS17 ODS Graphics Procedures and Predictive Modeling