

Course Schedule – Tuesdays, 12 noon – 1 PM – SBMI – 7000 Fannin 6th Floor

Badge access required.

Week 1 June 4	<ul style="list-style-type: none">• Class overview• Fundamentals of R
Week 2 June 11	<ul style="list-style-type: none">• Concept of data frames in R• How to load data in R and perform basic data handling
Week 3 June 18	<ul style="list-style-type: none">• Generating basic 2D and 3D plots• Introduction to Machine Learning
Week 4 June 25	<ul style="list-style-type: none">• Exploratory data analysis• Generating different plots for exploratory analysis
Week 5 July 9	<ul style="list-style-type: none">• Introduction to classification• Decision trees, random forests, and Support Vector Machines
Week 6 July 16	<ul style="list-style-type: none">• Introduction to Regression• Linear regression and logistic regression
Week 7 July 23	<ul style="list-style-type: none">• Introduction to clustering• K-means clustering and its limitations• Dbscan and hdbscan
Week 8 July 30	<ul style="list-style-type: none">• Preprocessing data• Common pitfalls in processing data and how to avoid them
Week 9 August 6	Team project presentations

No classes the week of July 4th.