

Course timeline (subject to change)

Assignments are due by the beginning of the next meeting unless indicated otherwise. For assignments, R Notebooks must be submitted through Blackboard as HTML files but with a txt extension.

Week	Date	Topic		Notes	Assignments
1	6/3	R Programming Fundamentals		Module 1 – Module 2	Lab 1 and Lab 2
		R Programming / Exploring Data with Graphs and Numerical Summaries			
2	6/10	Associations between Variables		Module 3	Lab 3
3	6/17	Advanced R Programming Concepts	Review / Exam I		
4	6/24	Basic Concepts in Probability and Probability Distributions; Normal Distribution		Module 4	Lab 4 (collected) and Lab 5 (not collected)
5	7/8	Statistical Inference			
6	7/15	Review / Exam II			
7		Gene Expression and Microarrays, Downloading and Normalization of Gene Expression Data			
8		Identification of Differentially Expressed Genes			
9		Heatmaps and Classification			
10		Classification Challenge			
11		Functional and Gene Set Enrichment Analysis			
12		Final Projects and Advanced Topics			
13		Review / Exam III			