

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		Module1 – Module 2	Lab1 and Lab 2
		R Programming / Exploring Data with Graphs and Numerical Summaries			
2	6/10	Associations between Variables		Module 3	Lab 3
3		Advanced R Programming Concepts	Review / Exam I		
4		Basic Concepts in Probability and Probability Distributions			
5		Normal Probability Distribution			
6		Statistical Inference			
8		Review / Exam II			
9		Gene Expression and Microarrays, Downloading and Normalization of Gene Expression Data			
10		Identification of Differentially Expressed Genes			
11		Heatmaps and Classification			
12		Classification Challenge			
13		Functional and Gene Set Enrichment Analysis			
14		Final Projects and Advanced Topics			
15		Review / Exam III			