

BIOF 501: Introduction to R: Step-by-Step Guide

R is a free statistics software that is becoming increasingly popular and important for data analysis in biology. During the course, students will first learn how to handle the R programming environment. Next, students will learn how to simulate data for analysis, while the background for R programming will be provided in accompanying lectures. At the end of the course, students will become familiar with simple R programming, which they will be then able to apply for their own data analysis.

Learning Objectives

- Introduce R programming environments for scientific analysis
- Understand the concepts of basic data structures, such as Vectors, Matrices, Arrays, List, and Data Frames
- Introduce data handling and visualization in R
- Understand the concepts of Packages and simple R programming

Credits: 2

Class Type: Graduate Course

Program: Bioinformatics and Data Science

Availability Summer 2022