Resources

STAT 109: Introductory Biostatistics

Resources

This page provides links to essential course resources including the textbook, R software downloads, and reference materials.

Lectures

Lectures - Access all course lectures organized by week and day.

Textbook

Optional Textbook: [Introductory Statistics for the Life and Biomedical Sciences](#) by Julie Vu and Dave Harrington

This textbook is available for free online and provides additional explanations and examples that complement the course materials.

R Software Downloads

STAT 109 uses R for statistical computing. You can use R in several ways:

Base R

Download R: [R Project Website](#)

R is free and open-source statistical software. The base R installation includes the core R language and basic packages.

- **Windows:** Download the installer from [CRAN (Comprehensive R Archive Network)](#)
- **Mac:** Download the macOS installer from [CRAN](#)
- **Linux:** Install via your distribution's package manager or from [CRAN](#)

RStudio

Download RStudio: [RStudio Desktop](#)

RStudio is an integrated development environment (IDE) for R that provides a user-friendly interface, code editor, and helpful features for data analysis. RStudio Desktop is free and works with base R.

Note: You must install base R first before installing RStudio.

R in Google Colab

Access R in Google Colab: [R in Colab](#)

Google Colab provides free access to R in a cloud-based notebook environment. This is useful if you don't want to install R on your computer or need to work from different devices.

R in Jupyter Notebook

Install R for Jupyter: [IRkernel Documentation](#)

Jupyter Notebook is another notebook environment that supports R. To use R in Jupyter:

1. Install base R first

2. Install Jupyter Notebook or JupyterLab
3. Install the IRkernel package in R
4. Register the kernel with Jupyter

Note: R is also installed on all campus computers, so you can use the computer labs if you prefer not to install software on your personal computer.

Course Reference Materials

R Reference

R Quick Reference - A quick reference guide for common R commands and functions used in this course.

Methods Map

Methods Map - A reference table of statistical methods covered in the course, organized by topic.

Additional Resources

Campus Resources

- **Computer Labs:** R is installed on all campus computers
- **ROSE (Reusable Office Supply Exchange):** Free used computers may be available if you need a computer

Getting Help

- **Office Hours:** See the Syllabus for instructor office hours
- **Canvas:** Check Canvas for announcements and course communications
- **Email:** Contact the instructor at rho3@humboldt.edu