Resources

STAT 109: Introductory Biostatistics

Resources

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

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