CPSC 229 - Lecture Tentative Schedule*

*Subject to change.

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Date: Lecture Topic | Pre-class Reading Assignments
Tue Aug 27: Introduction to the Course, Icebreakers. Why Learn R? | None
Thu Aug 29: How We See | None
Tue Sept 3: Hands-on Introduction to R and RStudio | Cotton Ch. 1-2
Thu Sept 5: Getting to Know Your Workspace | Cotton Ch. 3 – 5
Tue Sept 10: Importing Data & Basic Plotting | Chang Ch. 1-2
Thu Sept 12: Scripting | R for Data Science: Workflow Scripts;
                        Software Carpentry: Best Practices for R Code
Tue Sept 17: Basic Data Analysis | None
Thu Sept 19: Workshop Day 1: Basic analysis
Tue Sept 24: Basics of Data Visualization | McCandless TED talk
Thu Sept 26: Grammar of Graphics Basics | Chang Appendix A; Cotton Ch. 14
Tue Oct 1: Student Presentations with ggplot2 | Assigned Chapter of Chang
Thu Oct 3: Workshop Day 2: Graphing
Tue Oct 8: Environments, Factors, & Functions | Cotton Ch. 6, 7
Thu Oct 10: Flow Control (Conditionals) | Cotton Ch. 8
Tue Oct 15: Flow Control (Looping) | Cotton Ch. 8 – 9
Thu Oct 17: Workshop Day 3: Automating
Tue Oct 22: Advanced Data Importing | Cotton Ch. 12
Thu Oct 24: Cleaning & Transforming Data | Cotton Ch. 13
Tue Oct 29: Version Control & Best Practices | Wilson et al. 2014;
                                             Software Carpentry: Version Control with Git
Thu Oct 31: Automating Data Analysis | none
Tue Nov 5: Workshop Day 4: Debugging & Troubleshooting | Cotton Ch. 16
Thu Nov 7: Basics of Communicating Data | TBD
Tue Nov 12: Scientific Papers | Assigned papers
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Thu Nov 14: Grant Proposals | Assigned proposals

Tue Nov 19: Oral Presentations | none

Thu Nov 21: Poster Presentations | Better Posters readings

Tue Nov 26: no class (Thanksgiving week) Thu Nov 28: no class (Thanksgiving week)

Tue Dec 3: What can you do with data science? Dr. El-Askary visits | none

Thu Dec 5: Project Conferences

Tentative Final Project Schedule*

Fri Nov 8 (5 pm): Data set for final project must be approved by Dr. Waldrop

Mon Nov 18 – Fri Nov 22: Individual progress conferences with Dr. Waldrop

Mon Dec 2 (5 pm): Deadline for first drafts of oral presentations (posters and talks)

Tue Dec 3 & Thu Dec 5: Individual conferences for feedback on oral presentations

Fri Dec 6: Deadline for first drafts of written assignment (uploaded to Blackboard)

Wed Dec 11 (9 am): Printing deadline for posters (email to Cheryl Stark, cc Dr. Waldrop)

Thu Dec 12 (9 am): Deadline for submitting talk powerpoint slides to Dr. Waldrop

Thu Dec 12 (10:45 am - 1:15 pm): Final presentations held during exam period

Thu Dec 12 (2 pm): Final written assignment due (uploaded to Blackboard)