**Stat 216 Calendar of Topics and Due Dates – Fall 2023**

*\*All assignments, labs, and video quizzes should be completed in Gradescope*

**Additional due dates:**

* The previous day’s in-class activity (as instructed by your instructor) is due at the beginning of class each day.

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| **Week** | **Date** | **Activity/Lab completed in class** | **Read prior to class (sections correspond to the online textbook)** | **Homework**  Video quizzes (due at 8**am**), Labs (due at 8**pm**), Assignments (due at 8**pm**) |
| **1** | Wed 8/23 | Syllabus Review & Intro to Data | -- | *Instructor bio* (*optional*) |
|  | Fri 8/25 | Week 1 Lecture Notes: Intro to Data | §1.1; §1.2; §1.3; §2.1 |  |
| **2** | Mon 8/28 | Week 2 Lecture Notes: | §2.2; §2.3; §2.4; §2.5 | ~~1.2.1and1.2.2~~  ~~1.2.3to1.2.5~~  ~~2.1~~  ~~2.2to2.4~~  *Assignment 1 (optional)* |
|  | Prior to class Wed 8/30 | Out of class Activity A: American Indian Address Part 1 |  |  |
|  | Wed 8/30 | Week 2 Activity: American Indian Address Part 2 |  |  |
|  | Fri 9/1 | Week 2 Lab: Study Design |  | Week 2 Lab |
| **3** | Mon 9/4 | **No class – Labor Day** |  |  |
|  | Wed 9/6 | Week 3 Notes: Cat/Quant  Activity: Graphing Categorical Variables | Ch 3; Ch 4; Ch 5 | *S~~tarting\_with\_R (optional)~~*  ~~4.1~~  ~~4.2~~  ~~4.4~~  ~~5.2to5.4~~  ~~5.5to5.6~~  ~~5.7~~  Assignment 2 |
|  | Prior to class 9/8 | Out of class Activity: Graphing Categorical Variables |  |  |
|  | Fri 9/8 | Week 3 Activity: Intro to R |  |  |
| **4** | Mon 9/11 | Lecture Notes Week 4 | Ch 6; Ch 7; Ch 8 | 6.1  6.2  6.3  Chapter7  Assignment 3 |
|  |  | Activity A: Movie Profits – Linear Regression |  |  |
|  | Wed 9/13 | Week 4 Activity B: Movie Profits – Correlation and Coefficient of Determination |  |  |
|  | Fri 9/15 | Week 4 Lab: Penguins |  | Week 4 Lab |
| **5** | Mon 9/18 | Week 5 Activity: Exam 1 Review |  | Islands\_Introduction  Assignment 4 |
|  | Wed 9/20 | **Group Midterm Exam 1** |  |  |
|  | Fri 9/22 | **Midterm Exam 1** |  |  |
| **6** | Mon 9/25 | Week 6 Activity A: Helper/Hinderer - Simulation Hypothesis Testing Part 1 | Ch 9; Ch 10; §14.1; §14.2 | Chapter9  Bootstrapping  Chapter10  14.1  14.2 |
|  | Wed 9/27 | Week 6 Activity B: Helper/Hinderer - Part 2 |  |  |
|  | Fri 9/29 | Week 6 Lab: Helper/Hinderer - Simulation Confidence Intervals |  | Week 6 Lab |
| **7** | Mon 10/2 | Week 7 Activity A: Handedness of Male Boxers - Theory-based Hypothesis Testing | Ch 11; Ch 12; Ch 13; §14.3; §14.4 | Chapter11  14.3TheoryTests  14.3TheoryIntervals  Chapter12  Assignment 5 |
|  | Wed 10/4 | Week 7 Activity B: Handedness of Male Boxers - Theory-based Confidence Interval |  |  |
|  | Fri 10/6 | Week 7 Lab: Errors and Power |  | Week 7 Lab |
| **8** | Mon 10/9 | Week 8 Activity A: Good Samaritan - Randomization Hypothesis Testing | §15.1; §15.2 | 15.1  15.2  Assignment 6 |
|  | Wed 10/11 | Week 8 Activity B: Good Samaritan - Simulation Confidence Intervals |  |  |
|  | Fri 10/13 | Week 8 Lab – Poisonous Mushrooms |  | Week 8 Lab |
| **9** | Mon 10/16 | Week 9 Activity A: Head Injuries by Helmet Use – Theory-based Hypothesis Testing | §15.3; §15.4; Ch 16 | 15.3TheoryTests  15.3TheoryIntervals  Assignment 7 |
|  | Wed 10/18 | Week 9 Activity B: Head Injuries by Helmet Use – Theory-based Confidence Interval |  |  |
|  | Fri 10/20 | Week 9 Lab – Diabetes |  | Week 9 Lab |
| **10** | Mon 10/23 | Week 10 Activity: Exam 2 Review |  | Assignment 8 |
|  | Wed 10/25 | **Group Midterm Exam 2** |  |  |
|  | Fri 10/26 | **Midterm Exam 2** |  |  |
| **11** | Mon 10/30 | Week 11 Activity A: COVID-19 and Air Pollution – Simulation Inference | Ch 17; Ch 18 | 17.1  17.2  17.3TheoryTests  17.3TheoryIntervals  Paired\_Data  18.1and18.2  18.3 |
|  | Wed 11/1 | Week 11 Activity B: Color Interference – Theoretical Inference |  |  |
|  | Fri 11/3 | Week 11 Lab: Swearing |  | Week 11 Lab |
| **12** | Mon 11/6 | Week 12 Activity: Rudeness –Simulation Inference | Ch 19; Ch 20 | 19.1  19.2  19.3TheoryTests  19.3TheoryIntervals  Assignment 9 |
|  | Wed 11/8 | Week 12 Lab: Triple Crown – Theoretical Inference |  | Week 12 Lab |
|  | Fri 11/10 | **No class – Veterans Day** |  |  |
| **13** | Mon 11/13 | Week 13 Activity A: Diving Penguins –Simulation Inference | Ch 21; Ch 22 | 21.1  21.3  21.4to21.5TheoryTests  21.4to21.5TheoryIntervals  Assignment 10 |
|  | Wed 11/15 | Week 13 Activity B: Golf Driving Distance – Theoretical Inference |  |  |
|  | Fri 11/17 | Week 13 Lab: Big Mac Index |  | Week 13 Lab |
|  | 11/20 – 11/24 | Fall Break – No classes |  |  |
| **14** | Mon 11/27 | Week 14 Activity A: What’s the probability | Ch 23 | Chapter23  RelativeRisk  Assignment 11 |
|  | Wed 11/29 | Week 14 Activity B: Titanic Survivor – Relative Risk |  |  |
|  | Fri 12/1 | Week 14 Lab: Efficacy of the COVID Vaccination |  | Week 14 Lab |
| **15** | Mon 12/4 | Week 15 Activity: Final exam review |  | Assignment 12 |
|  | Wed 12/6 | **Group Exam Part 1** |  |  |
|  | Fri 12/8 | **Group Exam Part 2** |  |  |
| **16** | Mon 12/11 – Thurs 12/14 | **Final Exam –**  **Tuesday December 13th,**  **6 - 7:50pm** |  |  |