**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**  Lecture quizzes (due at 11p**m**), Labs (due at 11**pm**), Assignments (due at 11**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: Study Design | §2.2; §2.3; §2.4; §2.5 | *Week 2 Lecture Quiz*  *Assignment 1 (optional)* |
|  | Prior to class Wed 8/30 | Out of class Activity Week 2: 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 Lecture Notes: Categorical and Quantitative EDA | Ch 3; Ch 4; Ch 5 | *Week 3 Lecture Quiz* Assignment 2 |
|  | Prior to class 9/8 |  |  |  |
|  | Fri 9/8 | Week 3 Lab: IPEDS |  | Week 3 Lab |
| **4** | Mon 9/11 | Week 4 Lecture Notes: Regression | Ch 6; Ch 7; Ch 8 | *Week 4 Lecture Quiz* Assignment 3 |
|  | Prior to class 9/13 | Out of class Activity Week 4: Regression and Correlation |  |  |
|  | Wed 9/13 | Week 4 Activity: Movie Profits – Linear Regression |  |  |
|  | Fri 9/15 | Week 4 Lab: Penguins |  | Week 4 Lab |
| **5** | Mon 9/18 | Week 5 Activity: Exam 1 Review |  | Assignment 4 |
|  | Wed 9/20 | **Group Midterm Exam 1** |  |  |
|  | Fri 9/22 | **Midterm Exam 1** |  |  |
| **6** | Mon 9/25 | Week 6 Lecture Notes: Hypothesis Testing | Ch 9; Ch 10; §14.1; §14.2 | *Week 6 Lecture Quiz* |
|  | Prior to class 9/27 | Out of class Activity Week 6: Helper/Hinderer – Simulation-based Hypothesis Test |  |  |
|  | Wed 9/27 | Week 6 Activity: Helper/Hinderer - Part 2 |  |  |
|  | Fri 9/29 | Week 6 Lab: Helper/Hinderer - Simulation Confidence Intervals |  | Week 6 Lab |
| **7** | Mon 10/2 | Week 7 Lecture Notes: Theory-based Testing | Ch 11; Ch 12; Ch 13; §14.3; §14.4 | *Week 7 Lecture Quiz* Assignment 5 |
|  | Prior to class 10/4 | Out of class Activity Week 7: Handedness of Male Boxers – Theory-based Testing |  |  |
|  | Wed 10/4 | Week 7 Activity: 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 Lecture Notes: Inference for Two Categorical Variables – Simulation Methods | §15.1; §15.2 | *Week 8 Lecture Quiz* Assignment 6 |
|  | Prior to class 10/11 | Out of class Activity Week 8: Good Samaritan Intro |  |  |
|  | Wed 10/11 | Week 8 Activity: Good Samaritan – Simulation Methods |  |  |
|  | Fri 10/13 | Week 8 Lab – Poisonous Mushrooms |  | Week 8 Lab |
| **9** | Mon 10/16 | Week 9 Lecture Notes: Theoretical Inference for Two Categorical Variables | §15.3; §15.4; Ch 16 | *Week 9 Lecture Quiz* Assignment 7 |
|  | Prior to class 10/18 | Out of class Activity Week 9: Head Injuries by Helmet Use – Theory-based Confidence Interval |  |  |
|  | Wed 10/18 | Week 9 Activity: Head Injuries by Helmet Use – Theory-based Hypothesis Test |  |  |
|  | 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 Lecture Notes: Paired Inference | Ch 17; Ch 18 | *Week 11 Lecture Quiz* |
|  | Prior to class 11/1 | Out of class Activity Week 11: Color Interference |  |  |
|  | Wed 11/1 | Week 11 Activity B: –COVID-19 and Air Pollution |  |  |
|  | Fri 11/3 | Week 11 Lab: Swearing |  | Week 11 Lab |
| **12** | Mon 11/6 | Week 12 Lecture Notes: Inference for Independent Samples | Ch 19; Ch 20 | *Week 12 Lecture Quiz* Assignment 9 |
|  | Prior to class 11/8 | Out of class Activity Week 12: Does behavior impact performance? |  |  |
|  | Wed 11/8 | Week 12 Lab: Triple Crown |  | Week 12 Lab |
|  | Fri 11/10 | **No class – Veterans Day** |  |  |
| **13** | Mon 11/13 | Week 13 Lecture Notes: Inference for Two Quantitative Variables | Ch 21; Ch 22 | *Week 13 Lecture Quiz* Assignment 10 |
|  | Prior to class 11/15 | Out of class Activity Week 13: Prediction of Crocodilian Size |  |  |
|  | Wed 11/15 | Week 13 Activity B: Golf Driving Distance |  |  |
|  | 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 Lecture Notes: Probability and Relative Risk | Ch 23 | *Week 14 Lecture Quiz* Assignment 11 |
|  | Prior to class 11/29 | Out of class Activity Week 14: Titanic Survivor – Relative Risk |  |  |
|  | Wed 11/29 | Week 14 Activity: What’s the probability? |  |  |
|  | 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 –**  **Thursday, December 14th,**  **6 - 7:50pm** |  |  |