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| Week | Monday | Tuesday | Wednesday | Thursday |
| 1: Intro to Data & R | Martian Alphabet | Martian Alphabet | Intro to R |  |
| 2: Sampling & EDA | Sampling Bias  MSU: American Indian | EDA for Quant Vars  MSU: IMDB Movies | EDA Lab  MSU: IPEDS | EDA Lab Wrap-up |
| 3: One Mean | Summarize & Visualize One Mean  Maddie: Sleepless Nights | Simulation Based CI  Maddie: Sleepless Nights | Simulation & Theory Based CI  Make a Lab! | Interpretations from Lab |
| 4: SLR & Correlation | Correlation & SLR  MSU: Diving Penguins | Inference for SLR  MSU: Diving Penguins | SLR Viz, Correlation,  Inference  MSU: Penguins | Interpretations from Lab |
| 5: Midterm | Warm-up Difference in Means | INDIVIDUAL EXAM | GROUP EXAM | Two Means Visualize & Summarize |
| 6: Two Means | Two Means: Independent Groups  MSU: Snowfall by Weather | Two Means: Paired  MSU: COVID-19 & Pollution | MSU: Swearing | Interpretations from Lab |
| 7: ANOVA & One Proportion | Many Means EDA & Simulation  Maddie: Squirrels, Diets, & Self-Esteem | Many Means Theory  Maddie: Squirrels, Diets, & Self-Esteem | EDA for Categorical Variables  MSU: Nightlight & Myopia | One Proportion Simulation & Theory  MSU: Handedness of Male Boxers |
| 8: Midterm | Warm-up Difference in Proportions | INDIVIDUAL EXAM | GROUP EXAM | Two Cat Simulation  MSU: Good Samaritan |
| 9: Two Proportions | Two Cat Theory  MSU: Head Injuries by Helmet Use | Two Cat Simulation & Theory  Maddie: Conserving Hotel Towels | MSU: Fatal Injuries in the Illiad | Relative Risk  Maddie: Murderous Nurse |
| 10: Review |  | Wrap-up Relative Risk &  Review Two Proportions | GROUP EXAM | Review Course |

Maddie’s Handouts:

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2: Sampling Words [Sampling]

3: Exam Scores [Z-score, Normality]

4: Can Dogs Understand Human Cues [One Proportion Simulation]

5: Tasting Water [One Proportion Simulation]

6: Do People Use Facial Prototyping [One Proportion Theory]

7: Errors and Significance [in the context of One Proportion]

8: Kissing Right [One Proportion Simulation & Theory]

9: Whale Collisions [Chi-Squared]

10: Have a Nice Trip [Randomization of Treatments]

11: Is Yawning Contagious [Difference in Proportions Simulation]

12: Donating Blood [Difference in Proportions Theory Based]

13: Conserving Hotel Towels [Multiple Proportions Simulation & Theory]

14: Murderous Nurse [Relative Risk]

15: Sleepless Nights [Single Mean Simulation & Theory]

16: Lingering Effects of Sleep Deprivation [Difference in Means Simulation & Theory]

17: Memorization [Difference in Means Simulation & Theory]

18: Comparing Auction Formats [Matched Pairs Simulation & Theory]

19: Squirrels, Diets, & Self-Esteem [ANOVA Simulation & Theory]

20: Predicting Height, Brain Density, Johnny’s Orange Trees [Correlation & Regression]