**3Stat 216 Calendar of Topics and Due Dates – Spring 2022**

*\*GS indicates the assignment/lab should be turned into Gradescope*

*\*D2L indicates the video quiz is completed within D2L*

**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** | **Due at 8pm MST**  Videos (D2L), Labs (GS), Assignments (GS) |
| **1** | Wed 1/19 | Syllabus, D2L Overview, What is statistics? | -- | Instructor bio (*optional*) (D2L)  Starting\_with\_R (*optional*) (D2L) |
|  | Fri 1/21 | Week 1 Activity: Martian Alphabet | §1.1; §1.2 |  |
| **2** | Sun 1/23 | -- | §1.3; §1.4; §1.5; §1.6; §1.8 | 1.2.1\_1.2.2 (D2L)  1.2.3\_1.2.4\_1.2.5 (D2L)  1.3 (D2L)  1.4to1.6 (D2L) |
|  | Mon 1/24 | Week 2 Activity A: American Indian Address Part 1 |  | Assignment 1 (GS) |
|  | Wed 1/26 | Week 2 Activity B: American Indian Address Part 2 |  |  |
|  | Fri 1/28 | Week 2 Lab |  | Week 2 Lab (GS) |
| **3** | Sun 1/30 | -- | §1.7; §2.1; §2.2; §2.3; §2.4; §2.5 | 2.1 (D2L)  2.2 (D2L)  MosaicPlots (D2L)  2.3 (D2L) |
|  | Mon 1/31 | Week 3 Activity A: Categorical EDA |  | Assignment 2 (GS) |
|  | Wed 2/2 | Week 3 Activity B: IMDb Movie Reviews |  |  |
|  | Fri 2/4 | Week 3 Lab |  | Week 3 Lab (GS) |
| **4** | Sun 2/6 | *--* | §3.1; §3.2; §3.3; §3.4; §3.5; §4.1; §4.2; §4.4 | Chapter3 (D2L)  Chapter4 (D2L) |
|  | Mon 2/7 | Week 4 Activity A: Movie Profits Part 1 |  | Assignment 3 (GS) |
|  | Wed 2/9 | Week 4 Activity B: Movie Profits Part 2 |  |  |
|  | Fri 2/11 | Week 4 Lab |  | Week 4 Lab (GS) |
| **5** | Sun 2/13 | *--* |  | Islands\_Introduction\_F21 (D2L) |
|  | Mon 2/14 | Week 5 Activity: Exam 1 Review |  | Assignment 4 (GS) |
|  | Wed 2/16 | **Group Midterm Exam 1** |  |  |
|  | Fri 2/18 | **Midterm Exam 1** |  |  |
| **6** | Sun 2/20 |  | §5.1; §5.3.1 §5.3.2; §5.3.3 | 5.1 (D2L)  5.3SimInf (D2L)  Bootstrapping *(optional)* (D2L)  One-Vs-Two-sided-Tests (D2L)  Helper-Hinderer Experiment (D2L) |
|  | Mon 2/21 | **No class – Presidents Day** |  |  |
|  | Wed 2/23 | Week 6 Activity A: Helper/Hinderer - Simulation Hypothesis Testing |  |  |
|  | Fri 2/25 | Week 6 Lab – Review + more on p-values |  |  |
| **7** | Sun 2/27 | -- | §5.2; §5.3.4; §5.4 | 5.2 (D2L)  5.3TheoryInf (D2L)  5.4 (D2L) |
|  | Mon 2/28 | Week 7 Activity A: - Simulation Confidence Intervals (impact of CL) |  | Assignment 5 (GS) |
|  | Wed 3/2 | Week 7 Activity B: - Theory-based Inference |  |  |
|  | Fri 3/4 | Week 7 Lab – Review + What confidence means |  | Week 7 Lab (GS) |
| **8** | Sun 3/6 | -- | §5.5.1; §5.5.2 | 5.5SimInf (D2L) |
|  | Mon 3/7 | Week 8 Activity A: Good Samaritan - Simulation Hypothesis Testing |  | Assignment 6 (GS) |
|  | Wed 3/9 | Week 8 Activity B: Good Samaritan - Simulation Confidence Intervals |  |  |
|  | Fri 3/11 | Week 8 Lab – Review + Errors |  | Week 8 Lab (GS) |
| **--** |  | **Spring Break** |  |  |
| **9** | Sun 3/20 | -- | §5.5.3; §5.6; §5.7; §5.8 | 5.5TheoryInf (D2L) |
|  | Mon 3/21 | Week 9 Activity A: Head Injuries by Helmet Use - Theoretical Hypothesis Testing |  | Assignment 7 (GS) |
|  | Wed 3/23 | Week 9 Activity B: Head Injuries by Helmet Use - Theoretical Confidence Intervals |  |  |
|  | Fri 3/25 | Week 9 Lab – Review + What confidence means |  | Week 9 Lab (GS) |
| **10** | Sun 3/27 |  |  | Assignment 8 (GS) |
|  | Mon 3/28 | Week 10 Activity: Exam 2 Review |  |  |
|  | Wed 3/30 | **Group Midterm Exam 2** |  |  |
|  | Fri 4/1 | **Midterm Exam 2** |  |  |
| **11** | Sun 4/3 | -- | §6.1; §6.2 | 6.1 (D2L)  6.2 (D2L) |
|  | Mon 4/4 | Week 11 Activity A: COVID-19 and Air Pollution – Simulation Inference |  |  |
|  | Wed 4/6 | Week 11 Activity B: Color Interference– Theoretical Inference |  |  |
|  | Fri 4/8 | Week 11 Lab + Power |  | Week 11 Lab (GS) |
| **12** | Sun 4/10 | -- | §6.3; §6.4; §6.5; §6.6 | 6.3 |
|  | Mon 4/11 | Week 12 Activity A: Snowfall by Weather Pattern – Simulation Inference |  | Assignment 9 (GS) |
|  | Wed 4/13 | Week 12 Lab: Triple Crown (add theory questions) |  | Week 12 Lab (GS) |
|  | Fri 4/15 | **No class – University Day** |  |  |
| **13** | Sun 4/17 |  | §7.1; §7.2; §7.3 | 7.1and7.2 |
|  | Mon 4/18 | Week 13 A: Diving Penguins –Simulation Inference |  | Assignment 10 (GS) |
|  | Wed 4/20 | Week 13 Activity B: Golf – Theoretical Inference |  |  |
|  | Fri 4/22 | Week 13 Lab: Review + Multivariate |  | Week 13 Lab (GS) |
| **14** | Sun 4/24 |  | § Sections | Videos |
|  | Mon 4/25 | Week 14 Activity A: Probability |  |  |
|  | Wed 4/27 | Week 14 Activity B: Relative Risk |  |  |
|  | Fri 4/29 | Week 14 Lab: Prob/RR |  | Week 14 Lab (GS) |
| **15** | Sun 5/1 |  |  |  |
|  | Mon 5/2 | Week 15 Activity A: Data Exploration |  | Assignment 11 (GS) |
|  | Wed 5/4 | Week 15 Activity B: Final exam review |  |  |
|  | Fri 5/6 | **Group Final Exam** |  |  |
| **16** | Mon 5/9 – Thurs 5/12 | **Final Exam – 6:00 – 7:50pm; Room TBD** |  |  |