STAT 201 Tentative Schedule

Fall 2021

Date Sections Topics

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| 8-24 | Syllabus/Canvas/Introduction | Overview |
| 8-26 | 1.1,1.2 | Graphical Descriptive Measures, shapes of histograms |
| 8-31 | 1.3 | Numerical Descriptive Measures (central tendency)  SPSS output frequency tables |
| 9-2 | 1.3(cont.) | Variability, Five Number Summary, Boxplots |
| 9-7 | 1.4 | Continuous Density Curves, Empirical Rule, z table  **QUIZ 1** |
| 9-9 | 1.4 (cont.) | Z table, Normal and standard normal distribution, Inverse Normal |
| 9-14 | 2.1-2.3 | Bivariate Relationships, Scatterplots, Correlation |
| 9-16 | 2.4,2.5 | Correlation, Least Squares Regression, Residuals |
| 9-21 | Chapter 2,2.6 | LSR Example, 2 way tables, |
| 9-23 | 4.1,4.2 | Concepts of Probability, Probability Rules  **QUIZ 2** |
| 9-28 | 4.2,4.5 | Rules, Trees, Bayes Theorem. Prob. Examples |
| 9-30 | 4.3,4.4 | Discrete Probability Distributions, Expected Value and Variance |
| 10-5 | 5.1,5.2 | Toward Statistical Inference, Sampling Distribution of sample mean, Central Limit Theorem |
| 10-7 | 5.3 | Sampling Distributions, Binomial Random Variables & Distribution |
| 10-12 | Review | Exam Review |
| 10-14 | EXAM 1 | **EXAM 1** |
| 10-21 | 6.1 | Introduction to Inference, Point & Interval Estimation, CI for single population mean (Z) |
| 10-26 | 6.2-6.4 | Concepts of Hypothesis Testing, Single Population Mean (Z) |
| 10-28 | 6.2-6.4(cont.) | Concepts of Hypothesis Testing |
| 11-2 | 7.1 | CI and Hypothesis Testing for a single population mean (T)  **QUIZ 3** |
| 11-4 | 7.1( cont.) | T-test for single population mean, Paired t |
| 11-9 | 7.2 | Inference: Two Population Means - independent groups |
| 11-11 | 7.2 | Two population means  Statistical Output SPSS,SAS,Excel |
| 11-16 | 8.1,8.2 | Inference About 1 and 2 Proportions  **QUIZ 4** |
| 11-18 | 9.1, 10.1 | Chi-Square/Regression |
| 11-23 | Review | Review |
| 11-30 | EXAM 2 | **EXAM 2** |
| 12-2 | Semester Summary  Chapters 11-12 | APPLICATIONS Multiple Regression, ANOVA  Journal Articles/Examples |