

## Stat 217 Calendar Fall 2015

Course Instructor: XXXXXXXXXXXXXXXXXXXXXXXX Wilson Hall

email: XXXXXXXXXXXXXXXXXXXXXXXX@math.montana.edu

Course Supervisor: Dr. Mark Greenwood 2-228 Wilson Hall

Required Text: *A Second Semester Statistics Course with R, V 2.0, 2015*, Greenwood and Banner

Readings are expected to be completed prior to the class session denoted.

Monday	Wednesday	Friday
Aug 24 EDA Read 0.0-0.6, 1.0	Aug 26 R and Permutation Tests Read 1.1-1.3	Aug 28 2-sample-test Read 1.4-1.6
Aug 31 Confidence Intervals Read 1.7-1.10	Sept 2 Bootstrapping	Sept 4 More than 2 groups Read 2.0-2.1
Sept 7 NO CLASSES LABOR DAY	Sept 9 One-Way ANOVA Models	Sept 11 Sums of Squares Read 2.2
Sept 14 ANOVA Table and p-values	Sept 16 Assumptions, Diagnostics Read 2.3-2.4	Sept 18 Tukey's HSD Read 2.5-2.9
Sept 21 Two-way ANOVA, Interaction plot Read 3.0-3.2	Sept 23 Two-way ANOVA Models Read 3.3-3.4	Sept 25 ANOVA tables
Sept 28 Balanced/not?	Sept 30 Unreplicated designs Read 3.5-3.8	Oct 2 Review for Exam 1
Oct 5 <b>Exam 1</b> In class	Oct 7 Independence vs Homogeneity Read 4.0-4.3	Oct 9 X <sup>2</sup> test statistic, p-values Read 4.4-4.5
Oct 12 Examining residuals Read 4.6-4.8	Oct 14 More X <sup>2</sup> examples Read 4.9-4.13	Oct 16 Scatterplots and correlation Read 5.0-5.2,5.4
Oct 19 Regression Equation Read 5.5-5.6	Oct 21 Least squares, R <sup>2</sup> , Influence Read 5.7	Oct 23 Assumptions, SLR model Read 5.8-6.0
Oct 26 Param & perm test for SLR Read 6.1-6.3	Oct 28 Transformations I Read 6.4	Oct 30 Transformations II Read 6.5
Nov 2 Review for Exam 2	Nov 4 <b>Exam 2</b> In class	Nov 6 CI for mean, PI for new response Read 6.6
Nov 9 MLR model, assumptions, and interpretations Read 7.0-7.2	Nov 11 LABOR DAY NO CLASS	Nov 13 Model Comparison Read 7.3
Nov 16 VIFs, t-tests Read 7.4-7.5	Nov 18 Overall F-test, Different intercepts Read 7.6-7.9	Nov 20 Different slopes and intercepts Read 7.10
Nov 23 F-tests: diff slopes and intercepts Read 7.11	Nov 25 THANKSGIVING NO CLASS	Nov 27 BREAK NO CLASS
Nov 30 AIC-based model selection Read 7.12-7.14	Dec 2 Linear models, Case Studies Read 8.0-8.4	Dec 4 Review for final
Dec 7 <b>COMMON HR FINAL</b> 10-11:50		

September 14 is the last day to drop the course. November 19 is the last day to withdraw with a W.

Calendar subject to change. Changes will be updated in class.