Last Homework Set: Math 338

1. Week 1:

(a) Mon, Nov 26: Finish up Maximum Likelihood Estimators (Section 10.8). The homework was: 10.2, 5, 7, 14, 50, 53, 59, 62
We should be able to start Chapter 11- much of it we have already begun discussing.

11.2: 11.1, 6^* , 20, 21, 29, 31

* Addition to 11.6: Use the estimate found to find n to try to make the error between \bar{x} and μ at 0.01 (your answer will be in terms of σ), if $\alpha = 0.05$.

(b) Tue, Nov 27: 11.3: 11.9**, 10***, 33, 35[†]

Hint for the second part of 11.9: What is the variance of $\frac{(n-1)S_1^2}{\sigma^2}$? How about $\frac{(m-1)S_2^2}{\sigma^2}$? There is a typo in the back of the book- See if you can find what you think should be the correct answer. *You might look back to page 280 if you need a hint.

†: Repeat 11.35 using unpooled variance.

- (c) Thu, Nov 29: Review for Exam 3
- (d) Fri, Nov 30: Exam 3
- 2. Week 2:
 - (a) Mon, Dec 3: 11.4-11.5: 12, 28, 29, 47, 49
 - (b) Tue, Dec 4: 12.1-12.2: Intro to Hypothesis testing HW: 12.3, 12.5*, 12.9, 12.31, 12.37 There is a typo in 12.5: $\theta_1 < \theta_0$.
 - (c) Thu, Dec 6: 13.1-13.3: Tests of Hypotheses HW: 13.27, 29, 36, 37, 42, 45
 - (d) Fri, Dec 7: Review for Final

The final exam is scheduled for Monday of finals week from 2-4PM.