

STAT 313. ASSIGNMENT NO. 9

Due on Tuesday, April 10, 2001

Show Your Work!

- Read Chapter 8 (especially Section 8-3.4 which we'll not cover since it is straightforward) and Review Chapter 7 (if necessary).

- **Do** the following exercises:

8.20(c), 8.21(c), 8.26, 8.28, 8.30,

8.31 (where part (c) is optional – it is not hard, just follow Example 8.9 in §8-3.4)

8.32, 8.37.

Additional Problem: Ten years ago, 50% of the applications for a Gold MasterCard were accepted. In a recent random sample of 12 Gold MasterCard applications, 10 were accepted. Is there sufficient evidence at a significance level of 0.10 to support that the proportion of Gold MasterCard applications accepted is higher today (as compared to two years ago)? Perform the appropriate test. (State the hypotheses, compute the observed test statistic and p-value, and make a decision).