STUDY GUIDE FOR **FINAL EXAMINATION**
MATH 1401

The Final Examination will consist of 22 multiple-choice questions.

Question No.	Objective(s)
1	Find the mean, median, and mode of a set of sample data.
2	Determine the sampling method used in collecting data.
3	Determine if data is quantitative or qualitative. Determine if quantitative data is continuous or discrete, Determine the level of measurement of data.
4	Apply the Range Rule of Thumb.
5-6	Calculate basic probabilities. The P(A orB), P(A and B).
7	Determine whether a procedure results in a binomial distribution.
8	Determine the probability of an event using the binomial probability distribution.
9	Determine the probability of an event from a population that is normally distributed.
10	Apply the Central Limit Theorem.
10-13	Find the critical value used in finding the margin of error. Find the CI for μ and for P.
14-16	Determine the sample size needed to estimate a population parameter: Mean or Population Proportion.
17-18	Identify a Type I and Type II error corresponding to a given hypothesis.

19-22	Perform a hypothesis test.
23-24	Calculate the value of the linear correlation coefficient. Determine if there is a significant linear correlation. Make sure that you understand Method I for comparison with rc (r critical from table A-5). Also understand the use of P value from the Linear Regression test on the TI.
25	Find the regression equation given a set of data. Find the indicated predicted value whether you have linear correlation or not.