

Topics List for the Fourth Test

The student should be able to:

1. recognize **Type I** and **Type II** errors;
2. determine if samples are independent or dependent (paired);
3. for one or two proportions, one or two means, or paired means:
 - a. write the **null** and **alternative hypothesis** in symbolic form;
 - b. draw the normal curve showing the rejection region;
 - c. state this rejection region as a **decision rule**;
 - d. find the **critical values** for the appropriate z or t distribution;
 - e. use your calculator to evaluate both the **test statistic** and **p -value**;
 - f. find p -values given the test statistic;
 - g. state the **decision** and **conclusion** exactly as we did in class;
4. find confidence intervals for one two proportions, one or two means

Disclaimer: This is only a guide to possible exam topics. Your exam could include any topic discussed in class or on our homework!