Goal: Explore descriptive statistics, probability, and statistical inference; including mean, proportion, and variance for one and two samples, and confidence intervals and hypothesis testing.

Skills: 1. Identify common misuses of statistics.
2. Create appropriate graphs to summarize quantitative and qualitative data.
3. Use appropriate numeric values to describe data.
4. Calculate the probability of simple events.
5. Calculate simple conditional probabilities.
6. Identify a binomial experiment, and find probabilities associated with that experiment.
7. Draw a normal curve; find probabilities for standard and non-standard normal random variables.
8. Find confidence intervals for population proportions, means, and variances; interpret a confidence interval as a probability statement.
9. Describe the parts of a hypothesis test; identify types of error in a test; decide on appropriate null and alternate hypotheses; use the appropriate test statistic for a test; interpret a p-value.
10. Describe what correlation measures; create a regression line; use a regression line to make predictions.


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Office Hours: MTWR 12:30-1:30, and by appointment

Grading: Homework and Classwork, As assigned 25%
         Test 1       Wednesday, July 21  25%
         Test 2       Tuesday, August 3  25%
         Final Exam  Thursday, August 12 25%

Grading Scale: A [90, 100]; B [80, 90); C [70, 80); D [60, 70); F [0, 60]
1. Cell phones must be turned off during exams. Setting it to vibrate is not the same as turning it off.

2. If you must miss class, it is your responsibility to find out what you missed and to learn the missed information.

3. Homework, classwork, and computer lab assignments will not be accepted late for any reason.

4. I do not send grades through email for privacy reasons. If you would like to check your grade, please stop by my office during office hours.

5. If you send email to me, whether to ask a question or set up an appointment, please remember to include your name and use correct spelling and grammar.

6. Last day to drop without a grade is July 9. Last day to drop with a “W” is July 19. Dropping the class after this date will result in an “F.”

7. A grade of “I” will be given only in accordance with university policy.

8. If you have a disability that may require assistance of accommodations, or if you have any questions related to any accommodation for testing, note taking, reading, etc., please speak with me as soon as possible. You may also contact the Office of Disabled Student Services (898-2783) with any questions about such services.

9. To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 attempted hours and a cumulative TELS GPA of 3.0 thereafter. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. For additional lottery scholarship rules please refer to your Lottery Statement of Understanding form, review lottery scholarship requirements on the web at http://scholarships.web@mtsu.edu/telsconteligibility.htm, or contact the MTSU financial aid office at 898-2830.