1035-K1-231 **Stanley Rothman*** (stanley.rothman@quinnipiac.edu), Stanley Rothman, 15 Stacy Ct., Cheshire, CT 06410. *Base-ic Statistical Concepts: Using Baseball to Bring Statistics to Life.*

Can the study of statistics be understood? Can the study of statistics be fun? Most students answer these questions emphatically no. Why are the answers to these questions usually no? The problem is the subject matter behind the statistics.

Baseball fans debate many issues in baseball. Some of the issues covered are comparing Aaron to Bonds as offensive players and analyzing what it takes to hit .400.

Students are interested in and understand baseball.

For a baseball player to be successful as a hitter, he must make contact with the ball and then direct the ball to a place on the field where it becomes a hit.If you do make contact with the ball and get a hit, how much of that can be attributed to your ability as a hitter and how much should be attributed to chance or luck?

In baseball, performance is related to the concept of luck. In comparing baseball players, it is necessary to separate chance from ability. The area of statistics called inferential statistics can be used for these comparisons.

Many areas outside of baseball are also looking to separate chance outcomes from meaningful outcomes caused by skill or ability.

The goal of this course is to teach a traditional one semester statistics course using data acquired from the baseball records. (Received August 21, 2007)