SYSTEMS 302
INTRODUCTION

• OVERVIEW OF THE COURSE
  • Course Topics
  • JMP Software
  • Course Requirements

• DATA EXAMPLES
  • Population Comparisons
  • Regression Example

• For next time:
  • Devore, Chapter 1
  • JMP Manual, Chaps. 1, 2, 5
**PROBABILITY:**

- Assume the *population* is known
- Draw *conclusions* about possible *samples*

**STATISTICAL INFERENC**: 

- Assume a *sample* is given (Data) 
- Draw *inferences* about the *population*
QUESTION 1: (Probability)

Given a sample of 6 students from a class with 40% Juniors, what is the probability that exactly half of the sample are Juniors? (Deduction)

QUESTION 2: (Statistical Inference)

Given a sample of 6 students containing exactly 3 Juniors, what is your estimate of the percent of Juniors in the whole class? (Induction)