

SYSTEMS 302

INTRODUCTION

- **OVERVIEW OF THE COURSE**

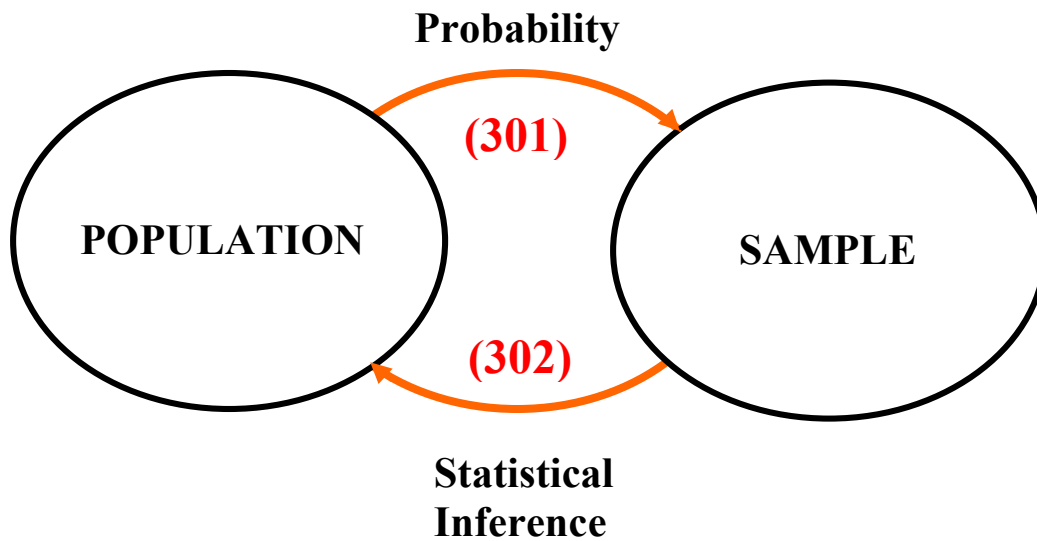
- **Course Topics**
- **JMPIN Software**
- **Course Requirements**

- **DATA EXAMPLES**

- **Population Comparisons**
- **Regression Example**

- **For next time:**

- **Devore, Chapter 1**
- **JMPIN Manual, Chaps. 1,2,5**



PROBABILITY:

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

STATISTICAL INFERENCE:

- Assume a **sample** is given (Data)
- Draw inferences about the **population**

QUESTION 1: (Probability)

Given that 40% of the class students are Juniors, what is the probability that exactly half of the sample are Juniors?

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?