

Intro to Probability

STA 220 – Lecture #5

Randomness and Probability

- We call a phenomenon **random** if individual outcomes are uncertain but there is nonetheless a regular distribution of outcomes in a large number of repetitions
- The **probability** of any outcome of a random phenomenon is the proportion of times the outcome would occur in a very long series of repetitions

Probability Models

- The description of a random phenomenon in the language of mathematics is called a
- A probability model consists of 2 parts:
 - A list of
 - A for each outcome