

EE 497B

**Probability and Random Processes
for Electrical Engineers**

Lecture 26

Professor Jeffrey Schiano
Department of Electrical Engineering

Lecture 26 Topics

- Pairs of Random Variables
- Joint CDF
- Joint PMF and Marginal PMF

Pairs of Random Variables

- Consider experiments that produce two random variables
- Example: Binary Communications
 - M represents the message sent
 - N represents the additive channel noise