

Lecture #19: Probability Distributions

What Will Happen During the Lecture

Goals of this lecture are to review concepts from discrete probability from a prerequisite — specifically, concepts involving conditional probability and independence.

Problems To Be Solved

In order to get started, a problem concerning conditional probability and independence that might be found in a textbook on probability and statistics — and that students might have been asked in a prerequisite for this course — will be discussed.

A simple problem, concerning conditional probabilities and ***hash tables with chaining***, will be considered.

Finally, if time permits, the proof of one of the unproved claims from the preparatory reading — the ***Law of Total Probability*** — will be discussed.