

## CHAPTER OVERVIEW

### 4: Probability Topics

Probability theory is concerned with probability, the analysis of random phenomena. The central objects of probability theory are random variables, stochastic processes, and events: mathematical abstractions of non-deterministic events or measured quantities that may either be single occurrences or evolve over time in an apparently random fashion.

#### [4.1: Introduction](#)

##### [4.1.1: Terminology](#)

##### [4.1.2: Independent and Mutually Exclusive Events](#)

#### [4.2: Addition and Multiplication Rule of Probability](#)

#### [4.3: Conditional Probability using Contingency Tables](#)

#### [4.E: Probability Topics \(Exercises\)](#)

---

This page titled [4: Probability Topics](#) is shared under a [CC BY 4.0](#) license and was authored, remixed, and/or curated by [OpenStax](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.