



Center for Curriculum Redesign

Professional Development in

Probability

Module Content

Unit 1: Coincidence & Causality

- 1.1 - Coincidences & Improbability
- 1.2 - Chance, Bayes, and Probability
- 1.3 - Causality

Unit 2: Different Types of Probability

- 2.1 - Probability & Computation
- 2.2 - Degree of Belief

Unit 3: Frequentist Probability

- 3.1 - Multiplicative Principle for Independent Events
- 3.2 - Tree Diagrams
- 3.3 - Two-Way Tables & Populations
- 3.4 - Using Simulations

Module Time: 20 hours*

Module Project: Using Probability to Help Manage Small Business Inventory

Core Concepts in this Module

- Uncertainty
- Conventions

Competencies in this Module

- Critical Thinking
- Metacognition
- Curiosity
- Courage

*Total module time of 20 hours includes both independent learning/asynchronous (~85%) and synchronous (~15%)