

# Topics & Readings - Module 1

## ► Set Theory

- Subsets
- Power Sets
- Unions & Intersections
- Difference & Complements
- de Morgan's Theorem

## ► Probability Basics

- Sample Space
- Events
- Sigma Algebra
- Probability Definition
- Properties of Probability

# Topics & Readings - Module 1, cont.

## ► Conditional Probability

- Total Probability Theorem
- Bayes Theorem
- Independence
- Chain Rule

## ► Readings

- The above listed topics are covered in Boncelet, Chapters 1 & 2.