



**BALL STATE**  
**UNIVERSITY**

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# **Module 3 Overview & Checklist**

Analysis of Variance

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# 1 Learning Objective(s)

## 1.1 Textbook Learning Objectives

- Understand and use the terminology of probability.
- Determine whether two events are mutually exclusive and whether two events are independent.
- Calculate probabilities using the Addition Rules and Multiplication Rules.
- Construct and interpret Contingency Tables.
- Construct and interpret Venn Diagrams.
- Construct and interpret Tree Diagrams.

## 1.2 Instructor Learning Objectives

- Begin to appreciate how probability connects back to the broader idea of statistics
- Understand the emphasis of chance and probability, not certainty

# 2 Assessments

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Quiz 2 on Module 2 Content on Canvas

# 3 Lecture(s) & Participation

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Watch Module 3 Lecture on Canvas and Take Notes

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Complete and Turn-in Module 3 Lecture Check-in on Canvas

# 4 Reading(s)

*Under "Readings" in Canvas Module*

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Read Chapter 3 of Textbook

# 5 Homework & Assignment(s) Due

*Under "Assignments" in Blackboard Module*

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*"I don't mind not knowing. It doesn't scare me." — Richard P. Feynman*

☐ Complete Practical Assignment I on Canvas - Should be done **after** all other work for the week

## **6** Looking Ahead

☐ Quiz 3 Next Week on Canvas