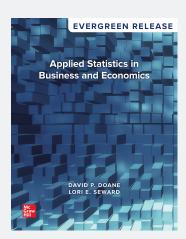


Applied Statistics in Business and Economics

David Doane | Lori Seward 2024 Release



Overview

The 2024 release of Applied Statistics in Business and Economics offers a complete yet student-friendly application-based approach necessary for student success in the classroom and beyond. This title continues to focus on Excel and business applications, with new Integrated Excel exercises and concept videos, while also taking into account that the analytics world is using more sophisticated tools with the addition of an optional section on R for each chapter to expose students to the application of R to solve statistical problems. This title also includes updated and applicable Analytics in Action briefings and Mini Cases in each chapter to help students tie concepts to real-world situations found in today's business environment, further promoting career-readiness.

Depth of Topic Coverage

Low High

Writing Style

Conceptual

Course Level

Undergraduate, Graduate, or MBA

Duration of Course

1- or 2-semester

Topics

- Foundational Concepts: Data Collection, Data, Descriptive Statistics, Probability, and Sampling.
- **Statistical Inference and Analysis:** Hypothesis Testing, Variance, Regression, Time-Series, Chi-Square, and Nonparametric Methods.
- Advanced Probability and Distribution: Analytics, Quality
 Management, Simulation, Binomial Probabilities, Poisson Probabilities,
 Standard Normal Areas, Cumulative Standard Normal Distribution,
 Student's t Critical Values, and Chi-Square Critical Values.
- Introduction to R: Recognizes the growing interest in analytics training beyond Excel by providing an optional introduction to R, supported by LearningStats modules, R function tables, R-compatible Excel data sets, and tutorials/demonstrations for Excel, Minitab, MegaStat, and R.

Table of Contents

- 1 Overview of Statistics
- 2 Data Collection
- 3 Describing Data Visually
- 4 Descriptive Statistics
- 5 Probability
- 6 Discrete Probability Distributions
- 7 Continuous Probability Distributions
- 8 Sampling Distributions and Estimation
- 9 One-Sample Hypothesis Tests
- 10 Two-Sample Hypothesis Tests
- 11 Analysis of Variance
- 12 Simple Regression
- 13 Multiple Regression
- 14 Time-Series Analysis
- 15 Chi-Square Tests
- 16 Nonparametric Tests
- 17 Quality Management
- 18 Simulation

Appendix A: Binomial Probabilities

Appendix B: Poisson Probabilities

Appendix C-1: Standard Normal Areas

Appendix C-2: Cumulative Standard Normal Distribution

Appendix D: Student's t Critical Values

Appendix E: Chi-Square Critical Values

Appendix F: Critical Values of F.10

Appendix G: Solutions to Odd-Numbered Exercises

Appendix H: Answers to Exam Review Questions

Appendix I: Writing and Presenting Reports

Appendix J: Statistics in Excel and R

Appendix K: Using R and RStudio

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This Title has Gone Evergreen

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Big Picture Changes in This Release

Updated Content

In the 2025 Release, the authors implemented extensive improvements based on valuable input from students, faculty, and reviewers. Notable changes include enhanced design and improved Connect connectivity, emphasizing Excel and business applications with new Integrated Excel exercises and concept videos. The addition of Analytics in Action briefings explores contemporary topics like Dark Data, Data Privacy, Sharpe Ratio, and the impact of Big Data on statistics. A refined Appendix J provides a comprehensive comparison of statistics functions in Excel and R, while Appendix K offers an accessible walkthrough for getting started with R and RStudio. Moreover, new and updated test bank questions, Mini Cases for economics and business, exercises, data sets, web links, Big Data Sets (e.g., NFL free agent contracts), and Related Reading. Guided Examples in Connect facilitate learning, and the LearningStats demonstrations for key topics using R have been introduced in each chapter, collectively reflecting a commitment to meeting user needs and enhancing the overall learning experience.



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