

Predict 401 – Introduction to Statistical Analysis – Fall 2014

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Course Description

This course teaches students the fundamentals of conducting statistical analysis and interpreting and evaluating statistical information. Topics covered include descriptive statistics, including central tendency, dispersion, and data display; probability; binomial and normal distributions; inference, including confidence intervals and hypothesis testing; correlation; bivariate regression; contingency tables and chi-square.

Texts

Required:

Triola, M (2014). *Elementary Statistics, 12th edition*. New York, NY: Pearson [ISBN-13 978-0-321-83696-0]

Recommended:

Lapp, J. (2014). *Student's Solutions Manual for Elementary Statistics, 12/E* [ISBN-10: 0321837924 • ISBN-13: 9780321837929]

Gonick, L., & Smith, W. (1993). *Cartoon guide to statistics*. New York, NY: HarperPerennial. [ISBN-13: 978-0062731029]

Lander, J.P. (2014). *R for Everyone*. Addison-Wesley, [ISBN-13: 978-0-321-88803-7]

Software

R

Prerequisites

None.

Learning Goals

The goals of this course are to:

- Conduct statistical analysis.
- Interpret statistical information.
- Evaluate statistical information.