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WHAT STARTS HERE CHANGES THE WORLD

Online Review Course of
Undergraduate Probability and Statistics

Review Lectures On Statistics: Introduction

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Course Website: www.lithoguru.com/scientist/statistics/review.html

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Review Lectures on Statistics

- What this course is:
 - A short review of an undergraduate probability and statistics course
 - Assumes knowledge of calculus
 - Useful if you are about to take a more advanced statistics course and need a review of the basics
- What this course is not:
 - A substitute for taking a full-semester undergraduate probability and statistics course

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Online Course Website

- www.lithoguru.com/scientist/statistics/review.html
- What you'll find there:
 - Links to video lectures
 - Links to supporting materials
 - Homework and test practice problems and solutions
- This online review course is equivalent to about three weeks of a normal, full-semester, three-credit-hour college course

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Review Topics Covered

Lecture 1: What is Statistics?
 Lecture 2: Descriptive Statistics, part 1
 Lecture 3: Descriptive Statistics, part 2
 Lecture 4: Probability, part 1
 Lecture 5: Probability, part 2
 Lecture 6: Probability, part 3
 Lecture 7: Discrete Random Variables
 Lecture 8: Expectation Value and Variance
 Lecture 9: Continuous Random Variables
 Lecture 10: Sampling Distribution
 Lecture 11: Confidence Intervals
 Lecture 12: Hypothesis Testing
 Lecture 13: Inferences About a Mean
 Lecture 14: Inferences About a Variance
 Lecture 15: Correlation
 Lecture 16: Linear Regression, part 1
 Lecture 17: Linear Regression, part 2

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Optional Textbooks

- It will be useful to supplement these lectures with reading
 - If you have your undergraduate statistics text, use that
 - If not, there are many good texts. Here are a few:

- Richard A. Johnson, *Miller and Freund's Probability and Statistics for Engineers*
- Jay Devore, *Probability and Statistics for Engineering and the Sciences*
- Jay Devore and Nicholas Farnum, *Applied Statistics for Engineers and Scientists*
- Robert M. Bethea and R. Russell Rhinehart, *Applied Engineering Statistics*
- And many others...

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Thank You, and good luck!

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