

Introduction to Statistical Reasoning: Carnegie Mellon University

(For a list of materials used in the course, please see http://www.theNCAT.org/R2R/AcadPrac/CM/CMU_IntroStatRes_Mat.pdf.)

Introduction to Statistical Reasoning is a one-semester, three-credit course. The course topics covered by *StatTutor* (the software used in the redesign) are the following:

Sampling

Experimentation

Displaying Data Distributions)

Measures of Center and Spread

Examining Relationships, scatterplot, correlation and two-way tables

Regression, prediction and causation

Significance Test Concepts Hypotheses Test statistic P-value Conclusions

Significance Test Methods Z-test for the population proportion Z-test for the population mean T- tests (population mean, 2 samples, paired) Chi-square tests for independence ANOVA Inference on regression

For more information, see http://www.theNCAT.org/R2R/R2R.htm.