

Community College of Philadelphia
Economics 114
Online

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Course Description: Statistics II is a continuation of Statistics I. Statistics II develops more sophisticated tools for analyzing data, building upon the techniques learned in Statistics I. Topics include; a review of basic hypothesis testing, a test of one population variance, a test of two population variances, goodness of fit tests for multinomial and poisson distributions, a test of independence, analysis of variance, simple regression and correlation analysis, multiple regression and correlation analysis, quality control, and time series analysis.

Textbook: "Statistics for Business and Economics" by Anderson, Sweeney and Williams, 10th Edition, 2008.

Grading Policy: There will be four exams given, four hourly exams plus a comprehensive final. Each hourly exam will be worth 25% of the grade. The final will be optional and non-penalty. That is if it is higher than your average it will replace your average, if lower it will be discarded. Grades are as follows:

90 and above = A
80 to 89 = B
70 to 79 = C
60 to 69 = D
59 and below = F

Outline:

Chapter 9 Review of hypothesis testing

Chapter 11 Inferences about population variances

Chapter 12 Tests of goodness of fit and independence

Test 1

Chapter 13 Analysis of variance

Chapter 14 Simple regression

Test 2

Chapter 15 Multiple regression

Test 3

Chapter 18 Forecasting

Chapter 20 Statistical methods of quality control

Test 4

Comprehensive final (two hours)