**Passaic County Community College**

**Master Syllabus**

**ACADEMIC YEAR: 2014-2015**

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**Course Code:** BU 207 **Course Title:** Business Statistics II

**Department/Program:**  Business Administration **Semester Offered:**  Fall & Spring

**Catalog Description/Course:** Using a problem solving approach, topics covered include one-sample and two-sample hypothesis tests, Analysis of Variance (ANOVA), simple and multiple linear regression, and non-parametric methods such as Chi-square applications and analysis of ranked data. Additional topics include index numbers, time series and forecasting, quality control, and decision theory.

**Prerequisites:** BU 206

**Credits:** 3

**Lecture Hours:** 3 **Lab/Studio Hours:** N/A **Clinical/Fieldwork Hours:**  N/A

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**REQUIRED TEXTBOOK/MATERIALS**: Statistics for Business and Economics, 12th edition (Anderson/Sweeney/Williams)

**ADDITIONAL TIME REQUIREMENTS**: N/A

**COURSE LEARNING OUTCOMES**:

Upon successful completion of this course, students will be able to:

* Conduct a hypothesis test about population parameters
* Conduct a hypothesis test for the equality of two population variances
* Interpret the coefficient of determination, regression coefficients, the regression line, and standard error of estimate.
* Test the hypothesis to determine whether regression coefficients are statistically significantly different from zero
* Determine the relationship between independent variables and a dependent variable using multiple regression.

**General Education Outcomes (if applicable**: N/A

**GRADING STANDARD**:

Semester Exams (3) . . . . . . . . . . . . . . . . . . . . . 60 %

Final Comprehensive Exam . . . . . . . . . . . . . . . 30 %

Randomly Collected HW . . . . . . . . . . . . . . . . . 10%

**COURSE CONTENT:**

* One-sample hypothesis test
* Two-sample hypothesis test
* Analysis of Variance
* Simple linear regression and correlation
* Multiple regression and correlation analysis
* Index numbers
* Time Series and Forecasting
* Shi-squared applications
* Analysis of ranked data
* Statistical Process Control and Quality Management

**DEPARTMENT/PROGRAM POLICIES**:

No make-up exams (extenuating circumstances considered)

**COLLEGE POLICIES**:

For Information regarding the following policies consult the College Catalog and/or Website and PCCC Student Handbook

* PCCC’s Academic Integrity Code
* Student Conduct Code
* Student Grade Appeal Process
* Intensive Writing Requirements
* Panther Alert: The College will announce delayed openings, closings, and other emergency situations through the Panther Alert System. Students are encouraged to sign up for the Panther Alert Notification. Students can sign up once they log into their Campus Cruiser Portal account through the PCCC website at www.pccc.edu.
* Cell Phone Policy: Use of cellular telephones, audible pagers, or other forms of audible electronic devices in all academic learning environments (including but not limited to, laboratories, testing centers, classroom, library, learning centers, theater, and so forth) is prohibited unless previously approved by the instructor or other authorized administrator.

Please refer to the PCCC Student Handbook and PCCC Catalog

**NOTIFICATION FOR STUDENTS WITH DISABILITIES:**

If you have disabilities, and believe you need accommodations in this class, please contact disability Services staff at 973-684-6395, or email[**ods@pccc.edu**](mailto:ods@pccc.edu) to make an appointment. You should do so as soon as possible at the start of each semester. If you require testing accommodations, you must remind me ( the instructor) one week in advance of each test. More information @ pccc.edu/ods.

**Contact Information:** Dr. Thomas Cox

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E-mail: [**tcox@pccc.edu**](mailto:tcox@pccc.edu)