Bossier Parish Community College Master Syllabus

Course Prefix & Number: MATH 210 Credit Hours: 3-3-0

Course Title: Basic Statistics

Course Prerequisites: A grade of "C" or higher in MATH 102

Textbook(s): Triola, Mario F. Elementary Statistics. 13th edition, Pearson, 2018. ISBN: 9780134462455

Course Description: A first course in statistics including: descriptive statistics; histograms and frequency distributions; measure of central tendency; probability; binomial and normal distribution; sampling distributions; estimation; hypothesis testing, regression and correlation.

Learning Outcomes:

At the end of this course, the student will:

- A. Learn methods of collecting and identifying types of data in order to properly organize and summarize data numerically in tables or visually in graphs;
- B. Find the mean, median, variance, and standard deviation of a data set that will promote the development of a sound understanding of probability values;
- C. Analyze probability distributions; and
- D. Use sample data to estimate population parameters and apply basic methods for testing hypotheses in order to describe linear correlations between two variables.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

- 1. Collect sample data; (A)
- 2. Analyze frequency distributions; (A)
- 3. Analyze histograms; (A)
- 4. Compute the mean, median, standard deviation, and variance for a set of data; (B)
- 5. Compute elementary probabilities and understand counting principles; (B)
- 6. Understand and utilize binomial probability, normal, and standard normal distributions; (C)
- 7. Estimate sample means for large and small samples; (D)
- 8. Test hypotheses; (D) and
- 9. Describe linear correlations. (D)

Course Requirements: All students are required to take a comprehensive final exam. When this course is taken in an online environment, the department has established a minimum grade of 60% on the final exam required to earn a grade of "C" or higher in the course. If this minimum score is not obtained by the student, then the student shall refer to the policy outlined in the course syllabus which will supersede the course grading scale shown below. All students are required to utilize ProctorU services for the administration of the final exam.

Course Grading Scale:

$$90 - 100 = A$$

 $80 - 89 = B$
 $70 - 79 = C$

$$60 - 69 = D$$

$$0 - 59 = F$$

Attendance Policy: The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

Revised: 05/18/2020

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

Title VI, Section 504, and ADA Information Angie Cao, Student and Disabilities Services Specialist Student Services, F-254 6220 East Texas Street Bossier City, LA 71111

Phone: 318-678-6511 Email: <u>acao@bpcc.edu</u>

Hours: 8:00 a.m. - 4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator Teri Bashara, Director of Human Resources Human Resources Office, A-105 6220 East Texas Street Bossier City, LA 71111

Phone: 318-678-6056 Email: tbashara@bpcc.edu

Hours: 8:00 a.m. - 4:30 p.m. Monday - Friday, excluding holidays and weekends.

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