

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. 14th edition, Pearson, 2022. ISBN: 9780136803201

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.

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 in the BPCC Student Handbook.

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: acao@bpcc.edu

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

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Bossier City, LA 71111

Phone: 318-678-6056

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