

Indiana State University

MATH 241 Section 002

Principles of Statistics

Catalog Course Description

Graphical and numerical representations of data, probability, sampling, statistical inference, correlations, and regression.

Faculty Information

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Department: Department Of Mathematical Sciences

Office Hours: 11:00am - 12:00pm

Course Learning Objectives

Explain information presented in mathematical forms (e.g. equations, graphs, diagrams, tables, words, geometric figures), including appropriate critique of the information or conclusions provided. Convert relevant quantitative information into various mathematical forms (e.g. equations, graphs, diagrams, tables, words, geometric figures) and carry out mathematical procedures and processes fluently and accurately. Make judgements and draw appropriate conclusions based on a quantitative analysis, while recognizing and describing the limits of this analysis. Make and evaluate important assumptions in given situations in estimation, modeling, and data analysis. Communicate the result of a quantitative argument, citing the representation of the math problem, explanation of the solution, and the interpretation of the solution.

Required Textbooks and Materials

Lumen One access; DeVeaux, Scientific Calculator, Computer with reliable internet capabilities.

Graded Elements of the Course

Attendance/Participation, Study Plan Assignments, Study Plan Quizzes, In-Class Written Assignments, Course Project, Unit Exams, Final Exam.