

AEDE 2005 – Data Analysis in Agribusiness and Applied Economics (Condensed)

Description

AEDE 2005 is an introductory course emphasizing computer applications of probability and statistics to problems of data collection, analysis, presentation, and interpretation in economics and business. The course satisfies requirements for the Agribusiness and Applied Economics major and the General Education data analysis requirement.

Students develop skills in interpreting data, drawing conclusions, and critically evaluating statistical results.

Logistics

- **Lecture:** Tuesday & Thursday (12:10 PM – 2:00 PM)
- **Lab:** Friday (9:10 AM – 10:10 AM)
- **Location:** Agricultural Administration Building 005
- **Instructor:** Ashish Adhikari

Materials

- *Online Statistics Education: A Multimedia Course of Study* (Free textbook)
- Microsoft Excel (Data Analysis Toolpak required)

Schedule

Section A: Foundations

- Week 1: Introduction and Descriptive Statistics
- Week 2: Descriptive Statistics and Data Cleaning in Excel
- Week 3: Probability
- Week 4: Sampling and Normal Distribution
- Week 5: Section A Exam

Section B: Inference

- Week 6: Confidence Intervals
- Week 7: Sample Size Determination
- Week 8: Hypothesis Testing
- Week 9: Analysis of Variance (ANOVA)
- Week 10: Section B Exam

Section C: Modeling and Applications

- Week 11: Regression Analysis
- Week 12: Chi-Square Tests
- Week 13: Advanced Regression and Review
- Week 14: Section C Exam

Evaluation

- Final Exam – 150 points
- Midterm Exams (Top 2 of 3) – 200 points
- In-Class Quizzes (Best 10) – 100 points
- Group Excel Assignments (3) – 300 points
- Lab Attendance – 50 points
- Lab Final Exam (Excel) – 100 points

Total: 900 points