COURSE SYLLABUS

MA 147, ELEMENTARY STATISTICS

*This information is to be completed by the instructor for the course.

I. *INSTRUCTOR INFORMATION

A. Name:

B. Office:

C. Office Phone Number:

D. E-mail Address:

E. Office Hours:

II. COURSE INFORMATION

A. Course name, number, and credit hours:

Elementary Statistics, MA 147, 3 semester hours

B. *****Semester, Section number

C. *****Class meeting time (days, time location):

D. Prerequisites

Minimum ACT mathematics score of 22 or MA 100 or higher

E. Course Description

An algebra-based first course in basic applied statistics with applications in various fields. Includes descriptive statistics, probability, sampling and sampling distributions, statistical inference, tests of hypotheses, regression and correlation.

F. Course Objectives

The primary objective of this course is to make available to the student a standard first course in basic applied statistics with applications from various fields. Other objectives include:
1. To provide an overview of the broad applicability and utilization of statistical methods.
2. To provide enrichment in the statistics area.
3. To prepare students for further study in applied and theoretical statistics.

Students should leave the course with a deeper understanding of the role and relevance of statistics in our society.

G. Course Content

1. Frequency distributions.
2. Descriptive statistics including grouped data.
3. Probability; including mathematical expectation and basic rules of probability.
4. Well known probability distributions (Normal, Binomial and Hypergeometric).
5. Random Sampling.
6. Estimation and Confidence Intervals.
7. Hypothesis testing (including, among others: test concerning means, difference between means, proportions, difference between proportions, chi-square, and analysis of variance).

III. TEXTBOOK AND SOFTWARE

A. Textbook

Just the Essentials of Elementary Statistics; Johnson, and Kuby, 10th Edition.

B. Software

None

C. *Calculator Policy

IV. ACCOMMODATIONS

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documented learning, physical and/or psychological disabilities. Under Title II of the Americans with Disabilities Act (ADA) of 1990, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Amendment Act of 2008, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities as compared to an average person in the population. **It is the responsibility of the student to contact Disability Support Services to initiate the process to develop an accommodation plan.** This accommodation plan will not be applied retroactively. Appropriate, reasonable accommodations will be made to allow each student to meet course requirements, but no fundamental or substantial alteration of academic standards will be made. Students needing assistance should contact Disability Support Services (256-765-4214).

V. ACADEMIC HONESTY POLICY

Students are expected to be honorable and observe standards of conduct appropriate to a community of scholars. Additionally, students are expected to behave in an ethical manner. Individuals who disregard the core values of truth and honesty bring disrespect to themselves and the University. A university community that allows academic dishonesty will suffer harm to the reputation of students, faculty, and graduates.

Incidents of possible student academic dishonesty will be addressed in accordance with the guidelines found at the following link:

http://www.una.edu/student-conduct/policies-and-procedures/academic-honesty.html

VI. *ATTENDANCE POLICY

Include attendance policy.

VII. *FINAL EXAM

Include date, time, and location.
Be sure to state that the final exam is COMPREHENSIVE

VIII. GRADING SCALE

Grades will be assigned according to the following scale:

A   90% – 100%
B   80% – 89%
C   70% – 79%
D   60% – 69%
F   Below 60%

IX. *GRADING PLAN

Include information on the number and type of evaluation methods (exams, quizzes, labs, homework, papers, etc.) with point or percentage values for each.

X. *GENERAL COMMENTS BY INSTRUCTOR