

Syllabus for MA 171, General Statistics (Winter 2013)

Instructor: Qinghong Zhang

Office: New Science Facility: Room 1133

Email: qzhang@nmu.edu

Tel: 227-1511

Office Hours: 11:00-1:00 MW, 10:00-12:00 TR, and by appointment.

This course satisfies the Formal Communication Studies requirement.

This course is designed to introduce students to the ways in which information and ideas are expressed using a communication system other than English. Such courses should foster the student's ability to conceptualize and communicate in an orderly, rational manner. Characteristics of a communication system include: 1) possession of a grammar; 2) operation from an established set of rules; 3) reasoning properties such as deduction, inference drawing and problem solving. This includes courses in languages and those in which the central focus of the course is on statistics, computers or formal logic.

Upon successful completion of this course, a student should be able to:

- demonstrate the difference between Descriptive Statistics and Inferential Statistics
- determine sample spaces and find the probability of an event
- construct a probability distribution for a random variable
- compute a confidence interval for a mean and a proportion
- describe the definitions used in hypothesis testing
- compute the correlation coefficient and the equation of the regression line

Evaluation of these learning outcomes will be done through assignments, quizzes, and exams.

Prerequisite: A grade of C- or better in MA103, MA104, or MA105, or satisfactory score on the Math Placement Exam.

Textbook: Elementary Statistics, 6th Edition by Allan Bluman, Loose Leaf version with access to Connect Plus Math Hosted by ALEKS, ISBN: 9780077930356, which is a website maintained by the publisher of your textbook.

Grading Plan:

Coursework will be weighted as follows:

Homework: 15%.

Quizzes: 15%.

Tests: 45%.

Final Exam: 25%

It is important to take the tests and exam at the scheduled time. Generally, no make-ups will be given.

Grading: 90%—100%, A; 80%—89%, B; 70%-79%, C; 60%-69%, D; 0%-59%, F.

Disability Services If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C. B. Hedgcock (227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.