

MATH 2470 – 1001 Fundamentals of Statistics

Text Book: *Probability and Statistics for Engineering and the Sciences (9th edition), Jay L. Devore*

Prerequisite: C or better in MATH 1260, MATH 1310, or MATH 1350

Content: Descriptive statistics: Populations, samples and processes; Pictorial and Tabular; Measures of Location; Measures of Variability; Probability: Sample Spaces and Events; Axioms, Interpretations and properties of probability; Counting techniques; Conditional probability; Independence; Discrete Random Variables and Probability Distributions; Continuous Random Variables and Probability Distributions; Joint Probability Distributions and Random samples: Jointly distributed random variables; expected values, covariance and correlation; the distribution of the sample mean; Point estimation; Test of hypotheses.

Grading System:

Homework/Quizzes:	25%
Midterm Exam:	35%
Final Exam:	40%

All exams must be taken at the scheduled time unless evidence of a legitimate, unavoidable problem is presented. Make-up exams will not be given.

Note: Exams are closed book. Final exam will be comprehensive.

Homework and Quizzes: Homework will be assigned and collected time to time. When collected, homework is due at the beginning of class. Late homework will not be accepted.

Grade scale: A	90-100%
B	80-89%
C	70-79%
D	60-69%