**Tennessee Technological University**
**Mathematics Department**

**MATH 3470: Introductory Probability and Statistics**

**I.    COURSE DESCRIPTION FROM CATALOG:**
Probability, random variables, discrete and continuous distributions and their simulation, elementary sampling theory, and estimation with an overall emphasis on simulation of random processes (Not allowed as a mathematics sequence; no credit allowed for mathematics and computer science majors after having taken MATH 4480.)
Lec. 3 Cr. 3.

**II.   PREREQUISITE(S):**
C or better in MATH 1920.

**III.  COURSE OBJECTIVES(S):**
To introduce students to the concepts of calculus based probability and statistics with applications in engineering and other applied sciences.

**IV.   STUDENT LEARNING OUTCOMES:**
Upon successful completion of the course students will be able to apply the basic

**VIII.** **ANY TECHNOLOGY THAT MAY BE USED:**
Calculator, R with Rstudio GUI

**IX.** **STUDENT ACADEMIC MISCONDUCT POLICY:**
Maintaining high standards of academic integrity in every class at Tennessee Tech is critical to the reputation of Tennessee Tech, its students, alumni, and the employers of Tennessee Tech graduates. The Student Academic Misconduct Policy describes the definitions of academic misconduct and policies and procedures for addressing Aca4g Aca