



Course Description

MGF1131 | Mathematics in Context | 3.00 credits

Through this course, students will experience the practicality of mathematics in a global society. Students will engage in the applications of tools and techniques of mathematics in a variety of contextual situations from everyday life. This course is appropriate for students in a wide range of disciplines/programs. This course must be completed with a grade "C" or better. Computational course.

Course Competencies

Competency 1: The student will apply mathematical models to civically contextual situations by:

1. Using mathematics in civically contextualized situations such as voting, graph theory, and financial mathematics

Competency 2: The student will engage in ways of thinking that involve sample size, counting strategies, chance, ratios, and proportions by:

1. Describing sample spaces and events
2. Calculating probabilities
3. Using the fundamental counting principle
4. Calculating combinations and permutations

Competency 3: The student will organize, visualize, and model data in a meaningful way by:

1. Organizing data
2. Creating the appropriate graphs from data such as histograms, bar graphs, and pie charts

Competency 4: The student will analyze and interpret representations of data to draw reasonable conclusions by:

1. Interpreting data presented in graphs, charts, and tables
2. Understanding measures of central tendency and variation
3. Drawing conclusions from datasets

Learning Outcomes:

- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning