MGF 1131 Mathematics in Context

Course Description

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 fulfills the Gordon Rule computational requirement and must be completed with a grade "C" or better. Prerequisite: student must meet the developmental education mathematics requirements in state rule 6a-10.0315 (by course, placement score, or eligible exemption). (3 hr. lecture)

Course Competency	Learning Outcomes
Competency 1: The student will apply mathematical models to civically contextual situations by:	Numbers / Data Critical thinking Social Responsibility
1. Using mathematics in civically contextualized situations such as voting, graph theory, and/or financial mathematics.	
Competency 2: The student will engage in ways of thinking that involves sample size, counting strategies, chance, ratios and proportions by:	Numbers / Data Critical thinking
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:	Numbers / Data Critical thinking

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:	Numbers / Data Critical thinking
1. Interpreting data presented in graphs, charts and tables. 2. Understanding measures of central tendency and variation. 3. Drawing conclusions from data sets.	

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