Course Title: Math in Society
Prefix and Course Number: MATH& 107

Course Learning Outcomes:
By the end of this course, a student should be able to:

- Use an appropriate mathematical procedure for solving a complex problem requiring quantitative and/or symbolic analysis.

- Explain the reasonableness and implications of answers and discuss the limitations of the methods used to solve.

- Make personal and societal decisions using mathematical processes and solutions.

- Use appropriate representations to effectively communicate, both orally and in writing, quantitative results and processes.

Course Outline:

I: Consumer Finance
   A. Sales Tax
   B. Percent Increase/Decrease
   C. Interest
   D. Annuities
   E. Loans

II: Probability
   A. Counting Principles
   B. Calculating Probabilities
   C. Odds
   D. Expected Value

III: Statistics
   A. Frequency Distributions
   B. Measures of Central Tendency
   C. Measures of Dispersion
   D. Data Analysis

IV: Modeling
   A. Growth/Decay Models Ex's: Linear, Exponential, Other
   B. Variation

V: Optional Topics
   A. Geometry/Trigonometry
   B. Set Theory
   C. Math in the Arts
   D. Logic