**OAKLAND
COMMUNITY
COLLEGE**

Math 1525 - Quantitative Reasoning

Course Description
This course is a liberal arts class intended for students who are pursuing degrees and/or programs
that do not require courses in statistics, pre-calculus and/or the calculus sequence. Upon
completion of the course students will be able to illustrate and communicate mathematical
information symbolically, visually and numerically. Topics include problem solving, sets, logic,
geometry, statistical reasoning, probability, finance, applications of equations and applications of
functions. The types of functions include linear, quadratic, exponential and logarithmic.

Prerequisite: Either MAT1125 or MAT1150 (or equivalent college transfer course) with a "C"
or better or COMPASS/ACT math placement test results appropriate for this course within the
last two years. (score equivalent to required score for MAT1540)

4 credits

Common Course Outcomes
1. Solve problems using deductive or inductive reasoning.
2. Solve problems using sets.
3. Determine the validity of a conclusion or argument using logic.
4. Solve application problems using geometry.
5. Solve application problems using a linear or quadratic equations.
6. Solve application problems using an exponential or logarithmic function.
7. Model and analyze data using statistical methods.
8. Determine the probability of a described event.