



Wayne County Community College District

COURSE SYLLABUS

MAT 135 Quantitative Reasoning

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

This course in quantitative reasoning surveys the way that mathematics is used in business and industry. As our society grows more technologically complex, the ability to interpret and analyze quantitative information has become an increasingly essential skill. The topics in this course are intended to develop analytic reasoning and the ability to solve quantitative problems. Topics include: the construction and interpretation of graphs, spatial visualization and geometry, descriptive statistics, math of business and finance, functions and modeling, probability and logic. Emphasis will be placed on the appropriate use of units and dimensions, estimates, and mathematical notation.

PREREQUISITES: MAT113 or placement test

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will:

- Evaluate graphical, numerical, and algebraic representations of information
- Interpret and draw inferences from mathematical and statistical models
- Determine the reasonableness of mathematical results
- Employ arithmetic, algebraic, and statistical procedures in order to solve real world problems
- Identify the limitations of mathematical and statistical modeling

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E