

MTH 100 - QUANTITATIVE LITERACY

Course Description

Quantitative Literacy focuses on developing mathematical maturity through problem solving, critical thinking, writing, and communication of mathematics. It integrates numeracy, proportional reasoning, algebraic reasoning, and functions with statistics and geometry as recurring course themes. Throughout the course, college success components are integrated with the mathematical topics.

Credit Hours

4

Contact Hours

4

Lecture Hours

4

Required Prerequisites

Appropriate placement score

Recommended Prerequisites or Skills Competencies

High school algebra and geometry

Course Learning Outcomes

Knowledge:

- Algebraic reasoning: Solve linear equations, understand linear functions
- Algebraic reasoning: Analyzing with formulas and functions with technology
- Develop literacy with graphs.
- Numeracy and proportional reasoning: percents, proportions, dimensional analysis, rates, unit rates
- Technologies: Graphing Calculator, Desmos, SALT, Excel/Sheets
- Basic statistics.
- Growth mindset/college readiness
- Problem solving, learning the language
- Geometry
- Students will use correct mechanics; spelling, grammar, punctuation, and references.

Application:

- The student will solve real world problems using appropriate models and strategies.

Integration:

- Students will apply problem solving strategies justifying their results in real world problems: linear growth, dimensional analysis, proportional reasoning, logical reasoning, using a formula, using correct technology.

Human Dimension:

- Self: Students will strive to improve areas of mathematical weakness based on feedback.
- Others: Students will collaborate with peers during group work.

Caring - Civic Learning:

- Students will recognize the impact mathematics plays in civic situations such as politics, education and income.

Learning How to Learn:

- Students will relate mathematical skills to real-life situations.