

Math 105Q – Contemporary Mathematics – Learning Outcomes & Grading

Course Description:

Designed to help liberal arts students develop quantitative reasoning skills they will need for college, career, and life. Will also provide students with the skills required to understand and interpret quantitative information that they encounter in the news and in their studies, and to make numerically-based decision in their lives. Topics include working with large numbers and units, linear and exponential relations, financial mathematics, essentials of probability and statistics, and fundamentals of geometry.

Learning Outcomes:

Upon successful completion of this course, students will be able to:

1. Use strong skills in critical and logical thinking to make wise personal decisions, navigate the media, and be an informed citizen.
2. Be competent in estimation so that they can put numbers from the news into context that makes them understandable.
3. Apply the mathematical tools needed to make basic financial decisions.
4. Read news reports of statistical studies in a way that will allow them to evaluate them critically and decide whether and how the studies should affect their personal beliefs.
5. Be familiar with basic ideas of probability and be aware of how it affects their lives.
6. Describe and explain how mathematics helps us study important social issues, such as global warming and the growth of populations.
7. Interpret mathematics topics to help them develop quantitative reasoning skills they will need for college, career, and life.

Also, students completing a **Core 2.0 Quantitative Reasoning (Q) course** should demonstrate an ability to:

- Interpret and draw inferences from mathematical models such as formulas, graphs, diagrams or tables.
- Represent mathematical information numerically, symbolically and visually.
- Employ quantitative methods in symbolic systems such as, arithmetic, algebra, or geometry to solve problems.

Prerequisite Guidelines:

- Math 088 or 096 or an equivalent Transfer Course: Grade C- or higher
- Math Placement Survey (MPLEX): Level 3 or higher
- College entrance exams:
 - Math ACT score: 22 or higher
 - Math SAT score: 520 or higher (new SAT 550 or 27.5)

See your instructor if you have questions.

Textbook: *Using and Understanding Mathematics: A Quantitative Reasoning Approach, 7th Ed.*

Authors: Bennett & Briggs

Option 1: E-text with MyMathLab access (purchase MyMathLab access kit only)

Option 2: Loose leaf text with MyMathLab access

* **REQUIRED:** Class Notes for Contemporary Mathematics (Orange Note Pack)

Calculator: A scientific calculator (one that handles log functions) will be needed.

* **No cell phone calculators.**

Grading: There will be two 100 point exams and a 150 point final exam. If the student cannot take an exam as scheduled, the student must make arrangements with their instructor before the exam date. A missed exam changes the final exam point total to 250 points instead of 150 points.

Percent (%) of Overall Grade

	Weight (%)
Daily Grade	8%
Homework	14%
Section Pts	13%
Test 1	20%
Test 2	20%
Final Exam	25%
Total	100%

Percent to Letter Grade*

Course %	Grade Assignment
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

* Plus(+) and minus(-) grades may be assigned