



MATH FOR LIBERAL ARTS INTENSIVE
21:640:103 (3+N3 CREDITS)

COURSE DESCRIPTION:

This is a two-part course covers

- Computational Skills, specifically Arithmetic operations involving whole numbers, integers, fractions, decimals, ratios, rates, proportions, and percent
- Topics in Mathematics, including Mathematics of Voting, Power, Touring; Financial Math; Fibonacci Numbers; Graphs; Probability & Statistics

The Computation part of the course uses hybrid model of instruction, implementing web-based, artificially intelligent, assessment and learning software in an instructor led class. The latter part of the course, 'Topics in Math', solely uses a traditional lecture style of teaching by an instructor.

PREREQUISITE: Determined by the Mathematics Placement Examination.

IMPORTANT NOTES:

This course is intended for students majoring (or intending to major) in the liberal arts who do NOT intend to take additional mathematics courses. If you intend to take additional courses in mathematics, you should be taking Math 107 or 109 (College Algebra) in place of this course.

For Computation Skills portion of the course: NO Calculators allowed, as this course involves the development of related skills. Problems can be done with pencil and paper.

For 'Topics in Math' portion of the course: Calculators are allowed.

TEXTBOOK and OTHER REQUIRED RESOURCES:

For Computational Skills portion of the course: ALEKS, adaptive learning software, 6 weeks license.

For 'Topics in Math' part of the course: "Excursions in Modern Mathematics," (9th edition) by Tannenbaum, published by Pearson.

DEPARTMENT WEB SITE: <http://www.ncas.rutgers.edu/math>

FREE TUTORING: available at Rutgers Learning Center Room 140 Bradley Hall (973-353-5608)

THIS COURSE COVERS THE FOLLOWING MATERIAL:

For Computational Skills portion of the course: the following topics are covered

- Whole Numbers
- Integers
- Solving Equations with Integer Solutions
- Fractions
- Decimals
- Ratios, Rates, Proportions and Percents

For 'Topics in Math' part of the course: the following chapters of the text are covered

Chapter 1: The Mathematics of Elections

Chapter 2: The Mathematics of Power

Chapter 5: The Mathematics of Getting Around

Chapter 6: The Mathematics of Touring

Chapter 10: Financial Mathematics

Chapter 13: Fibonacci Numbers and the Golden Ratio

Chapter 15: Graphs, Charts, and Numbers

Chapter 16: Probabilities, Odds, and Expectations

Chapter 17: The Mathematics of Normality

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