



## **MATH FOR LIBERAL ARTS**

21:640:106 (3 credits)

### **COURSE DESCRIPTION:**

Fundamental ideas of mathematics selected from graph theory, game theory, mathematical logic, number theory, geometry, probability, and statistics.

### **PREREQUISITE:**

21:300:102 (Elements of Algebra), or placement by examination. Successful completion of this course with a grade of "C" or better fulfills the mathematics proficiency requirement. Credit is NOT given for 21:640:106 (Math for Liberal Arts) after receiving credit for any other mathematics course. Intended for students in a liberal arts major who do NOT plan to enroll in additional courses in mathematics.

### **IMPORTANT NOTE:**

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.

A list of majors for which Math for Liberal Arts is recommended include: African-American & African Studies; American Studies; Ancient & Medieval Civilizations; Anthropology; Art; Central and Eastern European Studies; Criminal Justice (majors must take 920:301-302 for the statistics requirement); English; French; German; History; Journalism & Media Studies; Music; Philosophy; Political Science; Portuguese & Lusophone World Studies; Puerto Rican Studies; Social Work (majors must take 920:301-302 for the statistics requirement); Sociology; Spanish; Theater Arts and Television; Women's Studies.

**TEXTBOOK:** "Excursions in Modern Mathematics," (9<sup>th</sup> edition) by Tannenbaum, published by Pearson.

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

**FREE TUTORING:** is available in the Rutgers Learning Center, Room 140 Bradley Hall (973-353-5608.)

**CALCULATOR:** You may use a calculator for the course.

**THIS COURSE COVERS THE FOLLOWING CHAPTERS:**

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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