

## SYLLABUS FOR MTH U010

**Instructor:** Anthony Cutler  
**Time:** M,W,Th 1:35 – 2:40 Fall 2006  
**Place:** 104 KA (Kariotis)  
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**Office:** 541 NI (Nightingale)  
**Office Hours:** M 10:30 - 1:30

**Course Objectives:** The goal is for students to master solving and graphing first and second degree equations, and solving simultaneous equations.

**Book:** *Intermediate Algebra through Modeling and Visualization* by Rockswold; pub. Addison Wesley, second edition

**Materials:** A graphing calculator is required for this course. The TI-83 or equivalent is recommended. You will also need graph paper.

**Attendance:** Daily attendance is required. Since emergencies may arise, students are allowed four absences. This means four absences for any reason at all. After four absences students will be asked to withdraw from the class.

**Help:** Free tutoring will be available from September 18 onwards in room 540B Nightingale. Assistance is also available during my office hours. Additional assistance is available at the Academic Assistance Center. Sign-up for appointments in 102 Cahners Hall

**Grading:** This course is graded Satisfactory/Unsatisfactory, with 70 or above constituting a Satisfactory average. **This course is 4 semester hours, but does not count as 4 credits towards graduation.**

Daily Homework (due on time)	10%
Tests (5) 12% each	60%
Quiz on chapter 6	5%
Final Exam	25%

**Make-Up Tests:** You may take only two make-ups out of four during the semester, and you may only take a make-up if (1) you want to improve a grade or (2) you missed a test and have a doctor's note on letterhead stationery with a phone number for confirmation. In either case you must attend two tutoring sessions (half hour each) before the date of the make-up exam. There is no make-up for a make-up nor is there a make-up for the final exam.

**Finals:** No student will be granted a request for a special final exam unless it is due to a registrar created conflict. If you miss the final you will be given a grade of zero on it as there will be no make-up given. Check the final schedule before you make plans to go

home for vacation. The date of the final is given in  
<http://www.registrar.neu.edu/finexsched.html>

**Note: It is your responsibility to be aware of any changes to this syllabus that are announced in class. Students are responsible for all information given when they are absent. If you have any concerns about the course that cannot be resolved with me, please see Prof. Oblas in 539 Nightingale. It is University policy that no grade, including an incomplete, can be changed after one year. Exceptions must be authorized by the Academic Standing Committee.**

**Day 1, 2 and 3** section 1.3 Integer Exponents

Day 1: definition of exponents, zero and negative exponents

HW: p.35-36: 1-36

Day 2: laws of exponents

HW p.36:: 37-82 odd

Day 3: order of operations and scientific notation

HW p. 36-37: 83-98, 103 - 116

**Day 4** section 1.4 Modeling Data With Formulas

HW p.46-47: 21-32 (skip absolute value), 39-42, 47, 48, 54, 57

(Skip section 1.5)

**Day 5** review

**Day 6** test

**Day 7** section 2.1 Functions and Their Representations- emphasis on evaluating functions

HW p.85: 15-24, 41-45, 51-54

**Day 8** section 2.2 Linear Functions: graphing lines, constant rate of change;

(Note: you may be able to start some of 2.3 this day)

HW: p.98: 1-15 odd;

**Day 9** section 2.3 Slope of a line p.111-114: 1-6; 7, 9, 11, 14, 21, 23, 31, 39, 41, 45, 47, 48, 49, 57-60, 61, 74

**Day 10 and 11** section 2.4 Equations of Lines and Linear Models (omit perpendicular lines) (use slope intercept form and omit point-slope form?)

HW: p. 127-128: 13-17, 19, 20, 23, 24, 31, 32, 35, 43, 46, 49, 63, 76, 79, 93

**Day 12** Review

**Day 13** test

**Day 14 and 15** section 3.1 Solving Linear Equations

Day 14: solving graphically, solving simple equations symbolically

HW: p. 154-155: 1-5, 11-16, 17-20, 23, 24, 29, 31, 32

Day 15: solving equations involving the distributive law, word problems

HW: p. 154: 22, 25, 26, 27, 33-46 odd

**Day 16** section 3.2 Introduction to Word Problems

HW: p. 165: 20, 23, 41, 42, 45, 47, 53

**Day 17** section 3.3 Linear Inequalities

HW: p. 175-176: 7, 8, 11-24

**Day 18** section 3.4 Compound Inequalities

HW: p. 188-189: 7, 8, 12, 33, 34, 35, 37, 38, 41, 43, 44, 48, 49

**Day 19** review

**Day 20** test

**Day 21** section 4.1 Systems of linear equations: graph and numeric solutions

Hw p. 225-226: 7, 8, 11, 13, 21, 27, 30, 45, 49, 58, 62

**Day 22 and 23** 4.2 Substitution and Elimination

Day 22: substitution: p.238-240: 7, 10, 11, 13, 19, 22, 74, 89

Day 23: elimination: p. 239- 240: 34, 35, 39, 40, 41, 42, 43, 45, 48, 49, 76, 86, 90

*(Note: Skip 4.3 and 4.4)*

**Day 24 and 25** 4.5 Systems in 3 Variables:

Day 24: HW: p. 267: 8, 9, 11, 13, 17, 18, 19, 20

Day 25: HW: p. 267-269: 21, 23, 24, 32, 33, 43

*(Note: skip the rest of chapter four)*

**Day 26** review

**Day 27** test

**Day 28** section 5.1 Polynomial Expression and Functions

HW: p.311-312: 35-45 odd, 45-53 odd, 61-67 odd, 83, 87-91 odd, 104, 107

**Day 29** section 5.2 Multiplying polynomials

Hw: p. 322-323: 7-23 odd, 41-57 odd, 73-97 odd

**Day 30** section 5.3 Factoring Polynomials

HW p. 333-334: 7-31 odd, 41-49 odd, 63-71 odd, 93

**Day 31** section 5.4 Factoring Trinomials

HW p.344-346: 7-49 odd, 71, 81-89 odd

(if time Special Factors section 5.5 hw p. 572 7-17 odd, 53-75 odd)

**Day 32** review

**Day 33** test

**Day 34** section 8.4. Quadratic Formula

HW: p. 572: 7-17 odd, 53-75 odd

**Day 35** quiz

**Day 36** catch up and review for final