

## SYLLABUS FOR MTH U010 Fall 2007

**Instructor:** Prof. Margolina

**Time:** M, W, Th 1:35–2:40

**Place:** Ryder 154

**E-mail:** wilshak14@gmailcom

**Office:** Lake Hall, rm.540A

**Office Hours:** TBA

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

**Book:** *Intermediate Algebra with Applications & Visualization* by G.K.Rockswold and T.A.Krieger (Pearson/Addison Wesley publishing; second edition 2005)

**Materials:** A graphing calculator is required for this course (equivalent to the TI-83 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 starting\_TBA\_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

**Homework:** Completed daily homework assignments should be brought to class, and will be spot-checked, as time permits.

**Quizzes and Tests:** Your grade will be based largely on short Quizzes based on homework (weekly; usually given on Thursdays), and on the two hourly Tests.

**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.**

Quiz (weekly)	20%
Tests (2) 15% each	30%
Final Exam	40%
Daily Homework (due on time)	5 %
Participation	5%

**Make-Up Quizzes:** There will be **no make-up** of quizzes. A missed quiz will be entered as zero. However, the lowest quiz grade will be dropped for everyone, and the second lowest quiz grade will be dropped for the students who produce homework on the timely basis. The quizzes will usually take place on Thursdays.

**Make-Up Tests:** You may take **one** make-up test (**within a week** from the original test date), if you missed a test and have a doctor's note on letterhead stationary with a phone number for confirmation. Mark these dates: Test #1 is on October 4; Test #2 is on November 8.

**Finals:** No student may request for a special final exam time unless it is due to a registrar created conflict. If you miss the final you will be given a grade of zero on it, and there will be no make-up given. Check the finals' 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>

**How to get on my Good Side:** Switch off your cell phone before entering the classroom. No electronic gadgets of any kind, please. If you must talk to your neighbors, discuss Math only.

**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. Sherman in 455 Lake, x2785. It is the University policy that no grade, including an incomplete, can be changed after one year. Exceptions must be authorized by the Academic Standing Committee.**

**DAILY SCHEDULE: (reading [by section] and homework assignments [by pages and exercise numbers])**

**Week of September 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

**Week of September 10:**

**Day 1:** section 1.3 order of operations and scientific notation

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

**Day 2** section 1.4 Modeling Data with Formulas

HW p.46-47: 1-12, 21-32 (skip absolute value), 39-42, 47, 48, 54, 57

(Skip section 1.5)

**Day 3** Review (no quiz due to Rosh Hashanah holiday)

**Week of September 17:**

**Day 1** section 2.1 Functions and Their Representations- emphasis on evaluating functions

HW p.85: 1-10, 15-24, 41-45, 51-54

**Day 2** 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 3** section 2.3 Slope of a line

HW p.111-114: 1-6; 7, 9, 11, 14, 21, 23, 31, 39, 41, 45, 47,  
48, 49, 57-60, 61, 74

**Week of September 24:**

**Day 1 and 2** section 2.4 Equations of Lines and Linear Models (omit perpendicular lines)

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

**Day 3** Review

**Week of October 1:**

**Day 1 and 2** section 3.1 Solving Linear Equations

**Day 1:** solving graphically, solving simple equations symbolically

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

**Day 2:** solving equations involving the distributive law, review

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

**Day 3** Test #1

**Week of October 8: (no school October 8, Columbus Day)**

**Day 1** Test #1 Review

**Day 2** section 3.2 Introduction to Word Problems

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

**Week of October 15:**

**Day 1** section 3.3 Linear Inequalities

HW: p. 175-176: 1-8, 11-24

**Day 2** section 3.4 Compound Inequalities

HW: p. 187-189: 1- 8, 12, 33, 34, 35, 37, 38, 41, 43, 44, 48, 49

**Day 3** review

**Week of October 22:**

**Day 1** section 4.1 Systems of linear equations: graph and numeric solutions

HW: p. 225-226: 1-8, 11, 13, 21, 27, 30, 45, 49, 58, 62

**Day 2 and 3** section 4.2 Substitution and Elimination

**Day 2:** substitution: p.237-240: 1-7, 10, 11, 13, 19, 22, 74, 89

**Day 3:** elimination: p. 239- 240: 34, 35, 39, 40, 41, 42, 43, 45, 48, 49, 76, 86, 90

*(Note: Skip 4.3, 4.4 and 4.5)*

**Week of October 29:**

**Day 1** section 5.1 Polynomial Expression and Evaluation (up to page 307)  
HW: p.310-312: 1-8, 35-45 odd, 45-53 odd, 61-67 odd, 83, 87-91 odd

**Day 2** section 5.2 Multiplying polynomials  
HW: p. 322-323: 1-6, 7-23 odd, 41-57 odd, 73-97 odd

**Day 3** section 5.3 Factoring Polynomials  
HW: p. 333-334: 1-6, 7-31 odd, 41-49 odd, 63-71 odd, 93

**Week of November 5**

**Day 1** section 5.4 Factoring Trinomials  
HW: p.344-346: 1-6, 7-49 odd, 71, 81-89 odd

**Day 2** section 5.5 Special Factors, review  
HW: p. 352: 1-10, 11-35 odd, 37-40, 49-65 odd

**Day 3 Test #2**

**Week of November 12: (no school November 12, Veteran's Day)**

**Day 1** Review Test #2

**Day 2** section 8.1 Quadratic Functions and their Graphs  
HW: p. 537-538: 1-10, 19, 20, 23, 24, 43-48

**Week of November 19: (no school November 21, 22; Thanksgiving vacation)**

**Day 1** section 8.3 Quadratic Equations  
HW: p. 560-561: 1-16, 25-49 odd

**Week of November 26:**

**Day 1** section 8.3 Quadratic Equations (continued)  
HW: p. 561-562: 51-58, 59-79 odd

**Day 2** section 8.4. Quadratic Formula  
HW: p. 572-573: 1-6, 7-23 odd, 25-28, 29-34 a),c) parts only

**Day 3** section 8.4. Quadratic Formula (continued) (skip complex solutions)  
HW: p. 573-574: 35, 36, 37, 40, 41, 42 (parts a),b) only); 85-92

**Week of December 3: (last day of school December 5)**

**Day 1** Review of Quadratic Equations

**LAST DAY Final Exam Review**

**Week of December 10: FINAL EXAM TBA**