

SYLLABUS FOR MTH 1010

Instructor: Dr. David G. Long

Time: M,W, Th 9:15-10:20

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Office Hours: M,W, Th 10:30-11:30

Course Coordinator: Carla Oblas, c.oblas@neu.edu, 539 Nightingale Hall

Course Objectives: The goal is for students for 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 equivalent to the TI-83 is recommended for this course. 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: Assistance is available during my office hours. Tutoring is available at 540B Nightingale 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 8	5%
Final Exam	25%

Make-Up Tests: You may take only two make-ups out of five during the quarter, 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 given 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.

Note: It is your responsibility to be aware of any changes to this syllabus that are announced in class. If you have any concerns about the course that cannot be resolved with me, please see Prof. King in 447 Lake, x5679. 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.

Day 1, 2 and 3 section 1.3 Integer Exponents

Day 1: definition of exponents, zero and negative exponents

HW: p.35-36: 1-6,17-36

Day 2: laws of exponents

HW p.35-36:: 7-16 and 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