

MATH 110: FUNCTIONS AND ALGEBRAIC METHODS

GENERAL COURSE INFORMATION

Instructor: Dr. Davis Doherty
Office: Engineering 407A
Office Hours: MWF 11:30-1:15, or by appointment
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Text: *Modeling, Functions, and Graphs*, by Yoshiwara and Yoshiwara

Course Web Site: <http://classes.seattleu.edu/mathematics/math-110/doherty/>

COURSE DESCRIPTION

In this course, we will study linear and quadratic functions and models. We will then solve application problems by using these models. You will learn to solve linear and quadratic equations as well as inequalities and systems of linear equations in two or three variables. Additional content includes powers, roots, equations involving fractional expressions, linear regression, polynomial and exponential functions, and a selection of additional topics. A TI-83, TI-84 or other graphing calculator is required. Successful completion of Math 110 entails obtaining (and demonstrating) proficiency with these mathematical tools.

HOMEWORK

Homework assignments will be posted on the course website *only*. It is your responsibility to check the website regularly; you should operate under the assumption that there will be a new assignment after each lecture. Each week there will be one assignment graded in-depth; all others will be graded on a credit/no credit system. My late homework policy: you may turn them in one class meeting late for partial credit; later assignments will receive no credit.

Instructions for turned-in assignments (these make them easier to grade):

- (a) Put your name in the upper right corner of the page, together with your section time and the assignment number.
- (b) Staple your assignments before coming to class.
- (c) Do the problems neatly, and in order.
- (d) You must show your work to receive credit.
- (e) Turn in late assignments separately from current ones, or you may not receive credit.

QUIZZES AND EXAMS

Every Friday you should be prepared for either a quiz or an exam. Quizzes are primarily a test that you understood the week's homework assignments – problems will be very similar

to the assigned homework problems from that week. Midterm exams will consist of more challenging problems that aim to test the depth of your understanding.

GRADES

Course grades are determined as follows:

15%	Homework
25%	Quizzes
35%	Midterms
25%	Final Exam

There will be little or no opportunity for extra credit in this class.

ABSENCES

Except in extraordinary cases, you can only make up a missed quiz or exam if you contact me by the end of the day it was given. Please make arrangements with me if you know in advance you'll be missing a test. Absences do not extend the due dates on homework assignments.

SUCCESS IN CLASS

Here are some tips for success in this course:

- (1) We will move quickly. Keep up with the material. If you have trouble, get help – visit the Math Lab, see me during my office hours, or work with other students.
- (2) Don't be afraid to interrupt me with a question.
- (3) If you're having trouble with book problems, re-read the relevant section and the examples. If you're still stuck, ask for help.
- (4) Save your homework assignments after they're returned, so you can refer back to them when it's time to study.

TENTATIVE COURSE SCHEDULE

Week	Textbook Sections
Week 1	A2, A3, A7, 1.1
Week 2	1.2–1.5
Week 3	1.6–2.2
Week 4	2.3–2.6
Midterm 1	October 24 (Review October 22)
Week 5	3.1–3.4
Week 6	3.5, 4.1, 6.1, A8
Week 7	6.2–6.4
Week 8	6.5–7.2
Midterm 2	November 21 (Review November 19)
Week 9	7.3, 7.5, 8.1
Week 10	8.2–8.4
Final Exam	Thursday, December 11, 2–3:50pm (110-07) Wednesday December 10, 4–5:50pm (110-08)