



**Math 73 Intermediate Algebra (General Ed)**

**INSTRUCTOR:** Professor Linda Ho

**CLASS TIME:** 0546 MTWTH 11:30 AM – 12:40 PM at MCS-208

**OFFICE HOURS:** MTWTh 9:30–10 AM and MW 12:45 – 2:15 PM @MCS 104Q  
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**TEXT:** *Intermediate Algebra, 4<sup>rd</sup> Edition, Tussy/Gustafson, 2009, Brooks/Cole*

**PREREQUISITE:** Math 40 or Math 41B or equivalent (Elementary Algebra)

**MATERIALS:** **Graph papers and a scientific calculator.**

**GRADING SCALE:** The grade you receive in this class will be based on:

- |                                   |                 |                   |
|-----------------------------------|-----------------|-------------------|
| (1) 5 Homework Quizzes (out of 6) | 20 points each  | <b>100 points</b> |
| (2) 4 Midterms                    | 100 points each | <b>400 points</b> |
| (3) Final Exam (comprehensive)    |                 | <b>200 points</b> |

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**700 Points Total**

*You are assured at least the following grade for obtaining the total points in one of the following categories:*

- |                |                         |
|----------------|-------------------------|
| 630 - 700..... | <b>A</b> (at least 90%) |
| 560 - 629..... | <b>B</b> (at least 80%) |
| 490 - 559..... | <b>C</b> (at least 70%) |
| 420 - 489..... | <b>D</b> (at least 60%) |
| 0 - 419.....   | <b>F</b> (59% or below) |

**Note: Students with disabilities who believe they may need accommodations in this class are encouraged to contact the Special Resource Center on campus as soon as possible to better ensure such accommodations are implemented in a timely fashion.**

**EXTRA CREDIT OPPORTUNITY:**

- A maximum of 10 points will be rewarded any time during the semester when you have used one or more **on-campus tutorial services** below with at least 10 hours during the semester. This will bump up your lowest test score (i.e. C to B or B to A, etc.):

**MCS-106 Mathematics Study Center, EOP&S Tutorial, and Special Resource Tutorial:** Please give me a copy of your log-in records (*see attached log sheet, last page of syllabus*) when you complete the tutorial hours by Wednesday, December 14<sup>th</sup>, 2011 (Final Exam Part II).



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### ACADEMIC HONESTY:

It's never a good policy to cross the GODFATHER. Cheating and plagiarism are serious offenses. For details on the El Camino's policies on these matters, see page 25 on the 2011-12 College Catalog.

**ATTENDANCE/PARTICIPATION:** Good Attendance and active participation are critical and highly encouraged in this class. Homework questions will be answered in the first 20 minutes of each class except on quiz and exam dates. All students will be expected to do problems in class when asked to.

**Students may be dropped because of the following:**

- *More than 4 absences*
- *Missing more than one exam*
- *Excessive tardy and leaving class early*
- *Disruptive Behavior (which includes but is not limited to talking, emotional outbursts, disrespectful behaviors, listening to i-pod/mp3, reading materials other than classroom text, and cheating of any means.)*

### STUDENT ABSENCE LOG:

Absence 1: Date: \_\_\_\_\_ I notified the instructor by \_\_\_ phone \_\_\_ email \_\_\_ in-person

Absence 2: Date: \_\_\_\_\_ I notified the instructor by \_\_\_ phone \_\_\_ email \_\_\_ in-person

Absence 3: Date: \_\_\_\_\_ I notified the instructor by \_\_\_ phone \_\_\_ email \_\_\_ in-person

Absence 4: Date: \_\_\_\_\_ I have scheduled an appointment to meet with the instructor to discuss my status in the class on the following date: \_\_\_\_\_

### CLASS CONDUCT:

- If you carry a **cell phone**, please turn the **audio off** or put in vibrating mode before entering class.
- Because of liability considerations, children of any age **may not** come to class with you.
- If you find the lecture boring and feel inclined to talk to a neighbor, please do it the old-school way **by surreptitiously passing notes!** (*smirk*)
- Seating will be assigned **next time** based on where you sit.
- If you disrupt class, you will lose 10 points on the next exam **and** be removed from the classroom. Consequences may also result in a drop from the course and additional disciplinary actions from the administration.
- I **do not** accommodate students' vacation plans, family visits, or business trips whatsoever!
- I **do not** deal with your parents!

### HOMEWORK QUIZ POLICIES:

- Homework will be assigned everyday but they will not be collected (*see dates on homework assignment/tentative course schedule.*). It is YOUR JOB as a student to do homework!
- Instead there will be 6 in-class homework quizzes (**based on exact homework problems**) given periodically (*please see dates on tentative schedule*).
- Each homework quiz is worth 20 points. There will be 2-3 homework problems per quiz. You will have 20 minutes at the end of the class to complete the quiz.
- **Lowest homework quiz will automatically be dropped.** Therefore, if you missed a homework quiz, there will be NO MAKE-UP!
- A maximum of 100 points (best 5 out of 6 homework quizzes) will count toward your grades, which is equivalent to one midterm grade.



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- Since **all quiz problems** are *exact* homework problems and **all exam problems** are *similar* to homework problems, not doing homework on a regular basis will result in getting a bad grade in this class!

### EXAM POLICIES:

- Test guides and/or review problems will be assigned the weekend before each test.
- There will be ***no make-up exams, no retakes, and no drop of scores*** (except in very serious cases – a missed midterm score will be prorated as half of your final exam score). You must bring me a medical note if you were sick. If you simply forgot the exam date or you slept in, you will receive 0 on you exam--**NO EXCEPTIONS!**
- Students must **SHOW ALL WORK** on every exam. Answers with supporting work will receive full credit (if correct) and partial credit (if incorrect). Answers without supporting work will receive **NO CREDIT**.
- We will have a midterm every 2 to 3 chapters. Each midterm will be timed at 70 minutes.  
A two-part comprehensive final exam will be given. ***Please see exam dates on course schedule next page.***

### WORDS OF WISDOM:

- Mathematics is *not* a spectator's sport. If you cannot commit to 5 hours of class time weekly and at least 10 hours per week doing homework, reviewing lectures and getting tutorial help outside the classroom, please drop this course immediately.

**Reminder:** All exam dates and assignment dates on the syllabus are subject to change depending upon the class progress. Hence, *you are responsible* for all the announcements and materials covered during your absence. **It is ultimately the students' responsibility to withdraw themselves from the class if they wish to be withdrawn.** Don't just stop coming to class and assume the instructor will drop you. She/he may not and you will receive an "F" for the semester.



## Math 73 Intermediate Algebra (General Ed)

### TENTATIVE COURSE SCHEDULE

<u>Day</u>	<u>Date</u>	<u>Description</u>	<u>Day</u>	<u>Date</u>	<u>Description</u>
Mon	8/29	Intro/1.5	Mon	10/24	6.3
Tue	8/30	1.6	Tue	10/25	6.4
Wed	8/30	1.7	Wed	10/26	6.5
Thur	9/1	1.8/HW Quiz 1	Thur	10/27	<b>Q &amp; A</b>
Mon	9/5	<b>Holiday</b>	Mon	10/31	<b>Midterm 3</b>
Tue	9/6	2.1	Tue	11/1	6.6
Wed	9/7	2.2	Wed	11/2	6.7
Thur	9/8	2.3/HW Quiz 2	Thur	11/3	6.8
Mon	9/12	2.4	Mon	11/7	6.9
Tue	9/13	2.5	Tue	11/8	7.1
Wed	9/14	2.6	Wed	11/9	7.2
Thur	9/15	<b>Q &amp; A</b>	Thur	11/10	7.3/HW Quiz 5
Mon	9/19	<b>Midterm 1</b>	Mon	11/14	7.4
Tue	9/20	3.1	Tue	11/15	7.5
Wed	9/21	3.2	Wed	11/16	7.6
Thur	9/22	3.3	Thur	11/17	<b>Q &amp; A</b>
Mon	9/26	4.1	Mon	11/21	<b>Midterm 4</b>
Tue	9/27	4.2	Tue	11/22	8.1
Wed	9/28	4.3	Wed	11/23	8.2
Thur	9/29	4.4/HW Quiz 3	Thur	11/24	<b>Holiday</b>
Mon	10/3	5.1	Mon	11/28	8.3
Tue	10/4	5.3	Tue	11/29	8.4
Wed	10/5	5.4	Wed	11/30	8.5
Thur	10/6	<b>Q &amp; A</b>	Thur	12/1	9.1/HW Quiz 6
Mon	10/10	<b>Midterm 2</b>	Mon	12/5	9.1
Tue	10/11	5.5	Tue	12/6	10.1
Wed	10/12	5.6	Wed	12/7	10.1
Thur	10/13	5.7	Thur	12/8	<b>Q &amp; A</b>
Mon	10/17	5.8	Mon	12/12	<b>Final Exam Part 1</b>
Tue	10/18	5.9	Tue	12/13	<b>Q &amp; A</b>
Wed	10/19	6.1	Wed	12/14	<b>Final Exam Part 2</b>
Thur	10/20	6.2/HW Quiz 4	Thur	12/15	<b>Final Exam Results</b>

**Test 1** - (1.5-Ch 2)  
**Test 2** - (3.1-3.3, 4.1-4.4, 5.1, 5.3, 5.4)  
**Test 3** - (5.5-5.9, 6.1-6.5)  
**Test 4** - (6.6-6.9, 7.1-7.6)  
**Final I** - (8.1-8.5, 9.1, 10.1)  
**Final II** - (Test 1 - Test4)

**Last day to drop without a "W"**  
**Friday September 23**  
**Last day to drop with a "w"**  
**Friday November 18**



# Math 73 Intermediate Algebra (General Ed)

## HOMework ASSIGNMENTS

You must do homework assignment corresponding to the pace of the lecture. Homework questions will be answered at the beginning of class except on quiz and exam dates.

<u>Section</u>	<u>Study Set</u>	<u>Section</u>	<u>Exercises</u>
1.5	1-6All, 15-85 Eoo	6.1	1-12All,19-61o
1.6	11-57o	6.2	1-6All,11-41o,47-85Eoo
1.7	1-8All,13-23o,39-41o	6.3	1-4All,17-97Eoo
1.8	9-14 All; 25-27o, 37-39o, 43-53o, 59-61 o	6.4	1-6All,9-27o,33-61o
		6.5	1-4All,15-81Eoo (MIDTERM 3)
2.1	1-8 All, 19-33o, 41-51o	6.6	1-3All,13-35o
2.2	1-6 All, 17-47o, 69-75o	6.7	1-5All,9-39o,53-87Eoo
2.3	1-6 All, 17-51o, 55-59o	6.8	1-10All,11-27o,31-37o
2.4	15-65o, 93-97o	6.9	1-2All,15-29o,47-61o,63-66All
2.5	1-6 All, 17-99 Eoo		
2.6	1-5 All, 13-61o (MIDTERM 1)		
3.1	1-4 All, 13-35o	7.1	1-10 All,21-35o,49-79o
3.2	1-4 All, 13-35o, 45-53o	7.2	1-4 All, 15-25o, 43-129 Eoo
3.3	9-11 o, 17, 23-29 o, 37-59o	7.3	1-4 All, 13-103 Eoo
		7.4	1-8 All, 11-101Eoo
4.1	1-6 All, 17-75o, 85-87All	7.5	1-4 All, 13-33 o,39-51o,103
4.2	1-12All, 25-71o	7.6	1-11All, 15-41o,43-53o,57 (MIDTERM 4)
4.3	17-57o, 69-70		
4.4	1-4 All, 11-41o	8.1	1-4 All, 15-37o,47-65o
		8.2	1-6 All, 13-27o,37-39o, 45-53o
5.1	1-12 All, 15-113 Eoo	8.3	1-6 All,11-23o,27-29o, 43-47o,83
5.3	1-8 All, 17-71 o		
5.4	1-4 All, 11-63 o (MIDTERM 2)	8.4	1-7 All, 15-73Eoo
		8.5	1-2All,15-21o,27-29o,49-59o
5.5	1-6 All, 11-85 o		
5.6	1-4 All, 11-71 o	9.1	1-6All,13-71 Eoo
5.7	1-2 All, 9-47 o, 53-59 o	10.1	15-37o
5.8	1-4 All, 13-30 All		
5.9	1-10 All 15-37o,43-53o, 59-79o,87-91o,99,103		

**O = ODD NUMBERED PROBLEMS (1, 3, 5, 7...)**

**EOO = EVERY OTHER ODD NUMBERED PROBLEM (1, 5, 9, 13...)**

## Math 73

### **Course description:**

This intermediate algebra course is designed for students who are not considering further study in the sciences, technology, engineering or mathematics. In the context of studying basic functions and their graphs, students strengthen and expand their algebra skills. Functions studied include linear, quadratic, polynomial, rational, and radical functions, as well as the absolute value function. Particular emphasis is placed on the operations on functions, solving equations and inequalities, as well as using functions to model real life situations. Other topics include solving systems of equations and applications.

**Note:** Mathematics 73 serves as a prerequisite course for all transfer-level mathematics course sequences, EXCEPT the calculus sequence (Mathematics 170, 180, 190, 191 and 220).

### **Course Objectives:**

1. Carry out numerical operations and manipulate algebraic expressions, including expressions with rational and negative exponents.
2. Recognize functional relationships in the form of graphs, data or symbolic equations.
3. Solve problems involving a variety of function types, including linear, quadratic, polynomial, rational and radical functions, as well as the absolute value function.
4. Graph a variety of functions and relations and draw connections between these graphs and solutions to problems.
5. Solve a variety of equations and inequalities, as well as systems of equations and inequalities, using algebraic and graphical methods. Types of equations include linear, quadratic, polynomial, rational and radical equations, as well as absolute value equations.
6. Using numerical, symbolic and graphical methods, model application problems, solve them and interpret the results in the context of the problem.

### **SLO Statements:**

1. Students will be able to solve linear, quadratic, polynomial, rational, radical and absolute value equations.
2. Students will be able to solve linear, quadratic, polynomial, rational and absolute inequalities.
3. Students will be able to graph linear, quadratic, polynomial and absolute functions.
4. Students will be able to evaluate numerical operations and manipulate algebraic expressions including rational and negative exponents and radicals.
5. Students will be able to solve application problems involving linear, quadratic, polynomial, rational or radical functions.
6. students will be able to solve systems of linear equations and inequalities using algebraic and graphical methods

