



Math 73 Intermediate Algebra (General Ed)

INSTRUCTOR: Professor Linda Ho

CLASS TIME: 0486 MW 1:30 – 4:00 PM at MBA-103

OFFICE HOURS: MW 12:40 – 1:25 PM and 4:05 – 4:50 PM; TuTh 12:00 – 1:00 PM @ MBA-243
Office phone & Voice Mail (310) 660-3593 ext 6756

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TEXT: *Intermediate Algebra, 5th Edition, Tussy/Gufstason, Brooks/Cole (Cengage)*
elcamino 0887 8730

PREREQUISITE: Math 40 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) 4 Homework Quizzes (out of 5) | 25 points each | 100 points |
| (2) 4 Midterms | 100 points each | 400 points |
| (3) Final Exam (comprehensive) | | 200 points |

700 Points Total

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

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

ACCOMMODATIONS: *It is the policy of the El Camino Community College District to encourage full inclusion of people with disabilities in all programs and services. Students with disabilities who believe they may need accommodations in this class should contact the campus Special Resource Center as soon as possible. This will ensure that students are able to fully participate. As well one may contact the instructor privately to discuss your specific needs. The Special Resource Center is located in the southeast wing of the Student Services Center, (310) 660-3295. More guidelines for students with disabilities may be found on page 27 of 2017-2018 College Catalog or may visit their website at www.elcamino.edu/academics/src .”*

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.):

Mathematics Study Center (first floor of MBA, 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 the day you take comprehensive final exam (Wednesday, 12/12/18).



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ACADEMIC HONESTY: *El Camino College places a high value on the integrity of its student scholars. When an instructor determines that there is evidence of dishonesty in any academic work (including, but not limited to cheating, plagiarism, or theft of exam materials), disciplinary action appropriate to the misconduct as defined in BP 5500 may be taken. A failing grade on an assignment in which academic dishonesty has occurred and suspension from class are among the disciplinary actions for academic dishonesty (AP 5520). Students with any questions about the Academic Honesty or discipline policies are encouraged to speak with their instructor in advance.*

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. 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, texting on cell phones, 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.
- Seating will be assigned **next time** based on where you sit.
- If you disrupt class, you **will 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*). It is YOUR JOB as a student to do homework!
- Instead there will be 5 in-class homework quizzes (**based on exact homework problems**) given periodically (*please see dates on tentative schedule*).
- Each homework quiz is worth 25 points. There will be 3-4 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 4 out of 5 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 and no retakes*. **Your LOWEST midterm score, however, could be dropped AND replaced by $\frac{1}{2}$ of the comprehensive final exam score.** For example, if you score a 60 on midterm #1 and you end up scoring a 180 on final exam, then the score of 90 will replace 60 for midterm #1. Therefore, if you fail to show up on any exam dates, you will receive 0 on that 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 75 minutes. A comprehensive (2 $\frac{1}{2}$ hours) final exam will be given. **Please see exam dates on course schedule.**

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.



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TENATIVE COURSE SCHEDULE

<u>Day</u>	<u>Date</u>	<u>Description</u>	<u>Day</u>	<u>Date</u>	<u>Description</u>
Mon	8/27	1.5-1.6	Mon	10/22	6.1-6.2 /HW Quiz 3
Wed	8/29	1.7-1.8	Wed	10/24	6.3-6.4
Mon	9/3	HOLIDAY	Mon	10/29	6.5-6.6/Study Guide
Wed	9/5	2.1-2.3	Wed	11/31	6.7-6.9
Mon	9/10	2.4-2.5/HW Quiz 1	Mon	11/5	<u>Q & A/Midterm 3</u>
Wed	9/12	2.5-2.6/Study Guide 1	Wed	11/7	7.1-7.2
Mon	9/17	<u>Q & A /Midterm 1</u>	Mon	11/12	HOLIDAY
Wed	9/19	3.1-3.2	Wed	11/14	7.3-7.4/HW Quiz 4
Mon	9/24	3.6-4.1	Mon	11/19	7.5-7.6 /Study Guide4
Wed	9/26	4.2-4.3	Wed	11/21	8.1-8.3
Mon	10/1	4.4/5.1/HW Quiz2	Mon	11/26	<u>Q & A/Midterm 4</u>
Wed	10/3	5.3-5.4/Study Guide2	Wed	11/28	8.4-8.5
Mon	10/8	<u>Q & A/Midterm 2</u>	Mon	12/3	8.5, 9.1/ HW Quiz 5
Wed	10/10	5.5-5.6	Wed	12/5	9.1, 10.1/Study Guide
Mon	10/15	5.7-5.8	Mon	12/10	REVIEW
Wed	10/17	5.9-6.1	Wed	12/12	FINAL EXAM

Test 1- (1.5-Ch 2)

Test 2- (3.1-3.2, 3.6, 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 (8.1-8.5, 9.1; 10.1 Test 1 – Test 4)

Last day to drop

Without a “W” is Friday, 9/7/18

Last day to drop

with a “W” is Friday, 11/16/18

Quiz 1- (1.5-1.8)

Quiz 2- (3.1, 3.2, 3.6)

Quiz 3- (5.5, 5.6, 5.7, 5.8)

Quiz 4- (6.6-6.7)

Quiz 5- (8.1-8.3)



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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.

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

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

<u>Section</u>	<u>Study Set</u>	<u>Section</u>	<u>Exercises</u>
1.5	1-6 All, 15-85Eoo	6.1	1-16 All,19-65 o
1.6	11-25 o, 35, 39-65 o	6.2	1-6 All,11-41 o,47-85 Eoo
1.7	1-8 All,13-23 o, 39-41 o	6.3	1-4 All,15-101 Eoo
1.8	9,10,14,15,16; 27-29 o, 35-37 o, 41-51 o, 59-61 o	6.4	1-4 All,11-29 o, 35-65 o
		6.5	1-4 All,15-81Eoo (MIDTERM 3)
2.1	1-8 All, 19-33 o, 41-51 o	6.6	1-3 All,13-35 o
2.2	1-6 All, 17-47 o, 81-87 o	6.7	1-6 All,9-39 o, 53-87Eoo
2.3	1-6 All, 17-51 o, 55-59 o	6.8/6.9	SEE D=R*T and Workshare Handout
2.4	15-65 o, 93, 97, 99		
2.5	1-6 All, 19-93 Eoo		
2.6	1-5 All, 14-16 All, 17-71 o (MIDTERM 1)	7.1	1-10 All,23-37o,51-65o;71-78All,87-93o
		7.2	1-6 All, 17-27 o, 43-103Eoo;109-131 o
3.1	1-4 All, 13-35 o	7.3	1-4 All, 13-103 Eoo
3.2	1-4 All, 13-35 o, 45-53 o	7.4	1-6 All, 15-101Eoo
3.6	SEE Mixture HANDOUT 1-9 ALL	7.5	1-6 All, 15-35o , 41-53 o, 111
		7.6	15-21 o; 43-53 o (MIDTERM 4)
4.1	1-6 All, 17-75 o, 99-101 o	8.1	1-4 All, 15-21 o; 31-61 o
4.2	1-12 All, 25-71 o	8.2	1-6 All, 13-27 o, 37-39 o, 45-53 o
4.3	19-65 o; 69, 77, 81	8.3	23, 27-29 o, 43-47 o, 87
4.4	1-4 All, 11-41 o	8.4	1-7 All, 15-73Eoo
5.1	1-12 All, 15-105 Eoo	8.5	1-2All, 15-21 o; 27-29 o; 49-59 o
5.3	1-8 All, 19-25 o, 29-67 o		
5.4	1-4 All, 11-59 o (MIDTERM 2)		
5.5	1-6 All, 11-81 o	9.1	1-6All, 13-81 Eoo
5.6	1-4 All, 11-71 o	10.1	15-37 o
5.7	1-2 All, 9-47 o, 53-59 o		
5.8	1-4 All, 13-30 All		
5.9	1-10 All 15-37 o, 43-53 o, 59-79 o, 91-95 o, 105,109		

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 (Math 130, 165) and 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:

SLO #1 Application Problems

Students will be able to recognize and apply appropriate mathematical concepts and models involving a variety of functions to contextualized problems (authentic, real-world applications).

SLO #2 Solving Equations and Manipulating Expressions

Students will be able to symbolically (algebraically) solve a variety of equations, inequalities and linear systems and manipulate symbolic (algebraic) expressions that arise in contextualized problems.

SLO #3 Visual and Graphical Methods

Students will use visual and graphical methods to represent, analyze and solve contextualized problems.

SLO #4 Articulating Mathematical Reasoning

Students will be able to articulate the mathematical reasoning used in solving a variety of contextualized problems, both orally and in writing.

