

**Math 190– Single Variable Calculus and Analytic Geometry I
Fall 2018 Syllabus**

INSTRUCTOR: LINDA HO

CLASS TIME: Section 0932, TuTh 2:15 – 4:45 PM @MBA-111

OFFICE HOURS: MW 12:40 – 1:25 PM and MW 4:05 – 4:50 PM
TTh 12:00 – 1:00 PM @ MBA-243
Office phone & Voice Mail (310) 660-3593 ext 6756
Email: lho@elcamino.edu **Webpage:** www.elcamino.edu/faculty/lho

REQUIRED MATERIALS: Single Variable Calculus, Early Trancendentals, Eighth Edition, by James Stewart, Brooks/Cole, 2016 (**elcamino 4729 5972**). A scientific calculator is required. (NOTE: Graphing calculators will not be allowed on exams and quizzes.)

COURSE PREREQUISITE: Math 180 (Precalculus) or equivalent with a minimum grade of C.

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

(1) Homework Quizzes (4)	15 points each	60 points total
(2) Midterms (4)	100 points each	400 points total
(3) Comprehensive Final Exam	200 points	200 points total

660 Pts Maximum

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

660 - 594.....	A = 90%
593 - 528.....	B = 80%
527 - 462.....	C = 70%
461 - 396.....	D = 60%
0 - 395.....	F = below 60%

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 2018-2019 College Catalog or may visit their website at www.elcamino.edu/academics/src .”*

EXTRA CREDIT OPPORTUNITY:

- If you participate in 1 practice session of Math Contest **and** score in the top 50% of the AMATYC Math Contest at ECC on Friday, November 2, 2018 @ 1:30 PM at MBA-219, you will receive **10 extra credit points** (equivalent of one midterm grade up). For more information/practice problems/practice sessions, go to www.elcamino.edu/faculty/gfry or visit Professor Fry at MBA-241

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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 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 airplane 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!

EXAM POLICIES:

- Exam guides will be distributed 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 ½ of comprehensive final exam score***. For example, if you score a 60 on midterm #1 and you end up scoring a 160 on final exam, then the score of 80 will replace 60 for midterm #1. Therefore, if you fail to show up on any exam dates, you will receive 0 on that exam until that score is replaced by ½ of final--**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**.
- Four 1 ½ -hour midterms will be administered regularly. There will be a comprehensive 2 ½ -hour final exam and you can choose one of the two dates. *Please see dates on course schedule attached.*

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HOMEWORK POLICIES:

- Although homework will not be collected in my calculus courses, not doing homework will result in flunking exams. ***Please see attached homework sheet for assignments.***
- I will answer homework questions at the beginning of class as time permits. Please come to my office hours after each day for additional help.
- There will be **four homework-based quizzes** given prior to each midterm throughout the semester (*see syllabus for dates*). The 30-min quizzes will be worth 15 points each. There will be 2 – 3 problems per quiz. Make-ups are available during office hours only if you provide valid documents.

FREE TUTORIAL SERVICE:

- ***Math is not a spectator's sport.*** You need to **work hard continually** to achieve success in this course. There are *free* tutorial services available at MBA-119 and MESA workshops throughout the semester. You may want to do your homework there with **HELP!**

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.*

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Catalog Description:

Topics in this course include: limits; derivatives of algebraic, trigonometric and transcendental functions; differentials; graphing; applications; definite and indefinite integrals. Problem solving using a computer algebra system is integrated throughout the course.

Note: Mathematics 190 was formerly numbered Mathematics 5A.

Course Objectives

- 1) Evaluate limits.
- 2) Calculate derivatives of algebraic, trigonometric and transcendental functions (also by implicit differentiation).
- 3) Calculate derivatives of inverse functions and calculate differentials.
- 4) Graph functions including asymptotes, local extrema and inflection points.
- 5) Solve application problems using differential calculus.
- 6) Calculate definite and indefinite integrals (including the use of the method of substitution).
- 7) Use computing software for solving calculus problems. .

SLO Statements

SLO #1 UNDERSTANDING CONCEPTS Students will explain and demonstrate the idea of the limit, the derivative and the integral.

SLO #2 SOLVING PROBLEMS solve problems, including problems involving velocity and acceleration, by using derivatives and integrals.

SLO #3 GRAPHS Students will use techniques of calculus to determine maxima, minima, and points of inflection on the graph of a function.

SLO #4 PROOFS Students will analyze and construct proofs involving limits, derivatives, and integrals.

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Tuesday	Thursday
8/28 Sec. 2.1 – 2.2	8/30 Sec. 2.2 – 2.3
9/4 Sec. 2.6, 2.4	9/6 Quiz #1 (2.2, 2.3) Sec. 2.4 - 2.5
9/11 Sec. 2.7 – 2.8 <i>Test Guide #1 Distributed</i>	9/13 Sec. 3.1 – 3.2
9/18 Practice Problems Q & A Midterm #1 (2.1-2.8)	9/20 Sec. 3.2 – 3.3
9/25 Sec. 3.4 – 3.5	9/27 Quiz #2 (3.1, 3.2) Sec. 3.5 – 3.6
10/2 Sec. 3.7 – 3.8	10/4 Sec. 3.8 – 3.9
10/9 Sec. 3.9 <i>Test Guide #2 Distributed</i>	10/11 Sec. 4.1 – 4.2
10/16 HW Q & A (3.8-3.9 only) Midterm #2 (3.1-3.9)	10/18 Sec. 4.3 and 4.5
10/23 Sec. 4.3 and 4.5	10/25 Quiz #3 (4.1, 4.2) Sec. 4.4 and 4.7
10/30 Sec. 4.7 <i>Test Guide #3 Distributed</i>	11/1 Sec. 4.8 – 4.9
11/6 Homework Q & A (4.7) Midterm #3 (4.1-4.7)	11/8 Sec 5.1 – 5.2
11/13 Sec. 5.2 – 5.3	11/15 Sec. 5.3 – 5.4 **
11/20 Quiz #4 (4.9-5.1) Sec. 5.4	11/22 Thanksgiving! No Class!
11/27 Section 5.5	11/29 Section 5.5 <i>Test Guide #4 Distributed</i>
12/4 Midterm #4 (4.9-5.5) Final Test Guidelines Distributed	12/6 Sec. 3.10 – 3.11
12/11 Comprehensive Final Exam!	12/13 Comprehensive Final Exam!

Last Day to drop with refund of enrollment fee: Friday, 9/7

Last Day to drop without a notation on record: Friday, 9/7

Last Day to drop with “W”: Friday, 11/16

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” or the semester.

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HOMEWORK ASSIGNMENT/GUIDE

2.1	3, 5, 7a	2.2	1-17 odd; 31-41 odd
2.3	1-2; 3-29 odd; 32; 35-41 odd; 47-53 odd	2.4	15,16,17,25
2.5	3-11 odd; 15-27 odd; 36; 35-47 odd; 51	2.6	3-9 odd; 13-37 odd; 49, 57, 59
2.7	5-17 odd; 21, 22, 23, 27, 31-35 odd; 43, 45, 51, 53, 59	2.8	3-15 odd; 21-29 odd; 41-44 all; 49, 51
3.1	3-31 odd; 55, 63,77,83	3.2	3,7,11,15,19,23,25,33,41,43,45
3.3	1-19 odd; 23,29,37,39,40,41, 42,51	3.4	1-29 odd; 31, 37, 41, 47, 51, 77,79
3.5	1,5, 7, 11, 13, 14, 19, 29, 35	3.6	3-21 odd; 27, 43, 49, 52
3.7	7, 11, 15, 19, 23, 33	3.8	3, 9, 15, 17, 21
3.9	2, 6, 14, 17, 22, 25, 29, 43	4.1	1-25 odd; 26, 29, 31, 35, 39, 41, 49, 53, 61
4.2	5, 7, 9, 11, 25, 27, 37	4.3	1, 5, 7, 9, 11, 12, 19, 37, 39
4.5	1, 4, 5, 9, 13, 15, 17, 19	4.4	8, 9-27 odd; 35, 41, 47, 51, 55, 59, 65
4.7	15-20 all, 21, 23, 25, 27, 31, 37	4.8	17 (use calculator)
4.9	1-17 odd; 25-47 odd; 51, 59	5.1	5, 13
5.2	5, 9, 17, 19, 33, 53	5.3	9, 13, 19-43 odd; 73
5.4	5-17 odd; 21-45 odd; 59, 61	5.5	1-35 odd; 39-47 odd; 56, 57, 59, 71
3.10	3,11,13,14,15,33,35	3.11	9, 15, 17, 30-35 all;51