

Math 150A CALCULUS I (4 units), Spring 2011
CRN 21530 TR 12 – 1:50 pm Rm 1901

INSTRUCTOR: Gregory Nguyen
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Office: 612 Phone: (714) 992-7406
Hours: MW 11:30–11:55 am & 3–3:50 pm, TR 9–9:50 am
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COURSE DESCRIPTION

Prereq: Math 141 and Math 142 with a grade of “C” or better or math skills clearance.

This is a beginning calculus course covering limits and continuity, the rate of change of a function, derivatives of algebraic and transcendental functions, applications of the derivative, antiderivatives, and the definite integral.

STUDENT LEARNING OUTCOMES: Upon successful completion of Math 150A the student will be able to

- determine the value of one-sided or two-sided limits analytically or graphically;
- analyze a function to determine an appropriate method of differentiation, and apply the method to determine the derivative;
- analyze a function for continuity, relative extrema, intervals of increasing/decreasing, concavity and/or points of inflection; *and*,
- calculate the area between a curve and the coordinate axes using The Fundamental Theorem of Calculus and evaluate an integral using basic methods including substitution.

TEXT: Calculus of a Single Variable – Early Transcendental Functions, 4th ed, by Larson / Hostetler / Edwards

CALCULATOR: TI-83 or TI-84 is strongly recommended. TI-89 or above will not be allowed in classroom.

PAPERS: All graded work must be done on regular-sized paper (8.5 x 11 in.); double-sided pages are welcome. Homework done on other sizes or *messy spiral* notebook papers will not be graded.

HELPFUL WEBSITES:

HW solutions: <http://www.calcchat.com> (*Do not “abuse” this service and/or the solutions manual!!!*)

Course resources: http://college.cengage.com/mathematics/larson/calculus_early/4e/student_home.html

Graphing calculator help: http://www.prenhall.com/divisions/esm/app/calc_v2

GRADE DISTRIBUTION:

The **grading scale** is:

The course grade will be based on:		90 – 100%	A
Homework	50 pts.	80 – 89%	B
Tests (4)	400 pts.	70 – 79%	C
Final Exam	150 pts.	60 – 69%	D
TOTAL =	600 pts.	0 – 59%	F

ATTENDANCE: Students are expected to attend all sessions. Classes will begin on the hour, so **be on time**, and don’t plan to leave early! **Students with more than 3 unexcused absences** will be dropped. Absences due to illness/documentated emergencies should be reported to the instructor ASAP.

TESTS: There will be four 100-point tests (see *Course Schedule*). The tests are designed to examine your understanding of the concepts being covered in the course, so be prepared to see problems that resemble assigned HW exercises *and* problems that combine different concepts from different text sections. **There are NO test make-ups!**

FINAL EXAM: This is a **comprehensive** final exam worth 150 points. All students are required to take the final exam. Failure to attend the final exam will definitely result in a *grade of either D or F for the course.*

HOMEWORK ASSIGNMENTS: You should do the assigned HW as soon as the materials are being covered in class. **A HW packet is due the day following the complete coverage of the last section included** in the packet (see *Course Schedule*).

HW	Sections included
Packet #1	Reviews, 2.2, 2.3
Packet #2	2.4, 2.5, 3.1, 3.2
Packet #3	3.3, 3.4, 3.5, 3.6
Packet #4	3.7, 4.1, 4.2
Packet #5	4.3, 4.4, 4.5
Packet #6	4.6, 4.7, 4.8, 5.1
Packet #7	5.2, 5.3, 5.4
Packet #8	5.5, 5.6, 5.7

It is your responsibility to make sure you understand every required problem – we will not have much time in class to answer HW questions, so promptly seek help from ME (in office or via emails), Tutorial Center staff, tutors (on- and off-campus), classmates / study buddies. Setting a regular study schedule can be very effective.

As with every new math course, homework is an important part of your learning process – the HW in this course is supposed to be challenging and you are expected to struggle. **Do not use the solutions manual to circumvent this process!!!** Student who claim to “put considerable amount of effort and time” into this class but does not pass it usually rely too much on the solutions resources.

If you **practice HW problems and study lecture notes on a regular basis** (i.e. spend *at least 2 hours daily*, or *at least 4 hours for every class session*), you are more likely to be successful on quizzes and tests. **The more “proper” practice you get, the more it helps build your skills.**

WITHDRAWAL POLICY: While an instructor may officially withdraw a student who has poor attendance, **it’s the student’s responsibility to withdraw from a course** (s)he no longer attends.

**** Please Have Cell Phones, Music Players, etc. DEACTIVATED AT ALL TIMES during Class ****

COURSE SCHEDULE: This schedule and the assignments are tentative and subject to change.

Wk	Date	Agenda / HW problems	Notes
1	1/18	** OFF **	
	1/20	Introduction Algebra Review – 1 st Day HW, at the instructor’s website	
2	1/25	Trig Review – Appendix D.3 #21,29,30,31,33,35,37,41,42 2.2 #1,6,11,13,14,17,18,21,25	
	1/27	2.3 #9,35,38,43,50,54,55,60,63,71,77,79,81,93,99,119-123	1/30: Drop & receive refunds
3	2/1	2.4 #5,7,10,19,29,30,33,45,55,58,77,84,92,93,99-102,112	See #118
	2/3	** OFF, VSA Tet Festival 12–1:30 pm, front of Library **	2/6: Add deadline; Drop without “W”
4	2/8	2.5 #3,11,33,39,51,68,73-76	HW #1 due
	2/10	3.1 #1,7,14,17,21,23,36,37-40,43-46,71,81-86,99-102	

5	2/15	3.2 #1,4,6,7,19,24,33,35,38,41,44,47,59,63,77,83-88,94,116	<i>Start preparing for Test 1</i>
	2/17	3.3 #5,11,17,20,46,52,63,72,76,80,93a,104,108,117,133-138	
6	2/22	Test 1 (2.2 – 3.2 only, NO 3.3)	<i>HW #2 due</i>
	2/24	3.4 #14,25,28,35,59,63,72,79,91,106,114,130,133,153,183-185	
7	3/1	3.5 #13,20,22,27,29,35-38,45,51,69,71 3.6 #1,7,12,15,21,31,34,39,43,46,68,73,74	
	3/3	3.7 #4,7,13,15,22,24,26,27,40	
8	3/8	4.1 #1,3,7,11,14,15,17,25,27,29,33,69-72	<i>See #67; HW #3 due</i>
	3/10	4.2 #1,5,9,15,17,19,25,33,44,45,47,50,52,63,71,79-82	<i>See #84,87,88,89,90 Prepare for Test 2</i>
9	3/15	Test 2 (3.3 – 4.2)	<i>HW #4 due</i>
	3/17	4.3 #2,5,15,23,37,54,62,63-65,70-72,79,101-106	
10	3/22	4.4 #2,17,20,24,26,35,37,40,43,47,63-66,89-94	
	3/24	4.5 #3-8,15,21,23,25,29,31,33,35,49,63,95,117	<i>See #118</i>
11	3/29	4.6 #1-4,10,11,17,21,23,29,35,43,51,57,69-73,97	<i>HW #5 due</i>
	3/31	4.7 #5,9,11,14,16,19,20,27,41,59	<i>See #58</i>
12	4/5	4.8 #5,9,13,15,20,31,37,47,59-62	
	4/7	5.1 #4,12,19,24,31,38,47,49,54,66,77,95-100	<i>Prepare for Test 3</i>
13	4/12	Test 3 (4.3 – 5.1)	<i>HW #6 due</i>
	4/14	5.2 #3,10,17,23,27,32,38,42,47,50,55,64,79,80	
		** SPRING BREAK **	
14	4/26	5.3 #1,3,4,7,12,19,23,27,31,39,43,48,50,65-70	
	4/28	5.4 #3,10,15,21,26,28,37,41,46,52,58,80,88,92,95,103,113,114	<i>5/1: Drop with “W”</i>
15	5/3	5.5 #15,20,36,54,62,67,78,91,100,104,110,119,142b,161-166	<i>HW #7 due</i>
	5/5	5.7 #1,7,11,15,17,33,37,40,55,66,70,73,99-102	<i>Start preparing for Test 4</i>
16	5/10	5.6 #1,7,9,11,18,23,31	<i>Start preparing for Final</i>
	5/12	Test 4 (5.2 – 5.7)	<i>HW #8 due</i>
17	5/17	<i>Final Exam Q + A</i>	
	5/19	FINAL EXAM (11 am – 12:50 pm) Enjoy your Summer Break!!! ☺	

FULLERTON COLLEGE MATHEMATICS DIVISION **SELECTED COLLEGE POLICIES**

ACADEMIC HONESTY POLICY

Students are expected to abide by ethical standards in preparing and presenting material which demonstrates their level of knowledge and which is used to determine grades. Such standards are founded on basic concepts of integrity and honesty. These include, but are not limited to, the following areas:

1. Students shall not plagiarize
2. Students shall not cheat
3. Students shall not furnish materials or information in order to enable another student to plagiarize or cheat.

Instructors may deal with academic dishonesty in one or more of the following ways:

1. Assign an appropriate academic penalty such as an oral reprimand or point reduction.
2. Assign an "F" on all or part of a particular paper, project, or exam.
3. Report to the appropriate administrators, with notification of same to the student(s), for disciplinary action by the College. Such a report will be accompanied by supporting evidence and documentation.

Repeated violations may result in students receiving an "F" in the course, suspension or dismissal from the College.

AMERICANS WITH DISABILITIES ACT (ADA) STATEMENT

Fullerton College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the instructor. Verification of the disability must also be provided. The Disability Support Services office functions as a resource for students and faculty in the determination and provision of educational accommodations.

CHILDREN ON CAMPUS

Children are not allowed on campus unless supervised by a parent or guardian. Children may not attend classes or computer labs (unless the course is specifically designed to include children.) Children must be supervised so educational activities are not interrupted and may not be left unattended in common areas such as the library, student center, food services area, quad or college parking lots.

EMERGENCY RESPONSE STATEMENT

Take note of the safety features in and around the classroom. Also, please study the posted evacuation routes. The most direct route of exit may not be the safest. Running out of the building during earthquakes may be dangerous. During strong earthquakes, it is recommended to duck, cover, and hold until the quaking stops. Follow the guidance of your instructor. Your cooperation during emergencies can minimize the possibility of injury to yourself and others.

FULLERTON COLLEGE CATALOG AND CLASS SCHEDULE

The *Fullerton College Catalog* and the *Class Schedule* contain a number of policies relating to students that are important to you. Please be sure that you have read these publications thoroughly. You may purchase copies of these publications at the campus bookstore, or you may read them online at the Fullerton College website, www.fullcoll.edu.

STANDARDS OF STUDENT CONDUCT AND DISCIPLINE POLICY

The standards of student conduct and disciplinary action for violation of Board Policy 5500 were approved by the NOCCCD Board on January 28, 2003, and were drawn in compliance with Sections 66300, 76030, 76033, 76034, 76036 of the State Education Code. Students are expected to respect and obey civil and criminal law and shall be subject to the legal penalties for violation of the city, county, state, and national law(s). Student conduct must conform to Board Policy and college regulations and procedures. As cited in BP5500, "*A student who violates the standards of student conduct shall be subject to disciplinary action including, but not limited to, the removal, suspension or expulsion of the student.*"

Students have an obligation to familiarize themselves with the College's policies, rules and regulations and to conduct themselves in a reasonable, respectful manner, which is conducive toward attaining their educational goal. Upon registration, each student should obtain a copy of the College Policies and Regulations: Standards of Student Conduct and Discipline Policy. Contained therein are the policies approved by the Board of Trustees governing student behavior and the applicable penalties for violations of these policies. Copies are available in the Student Affairs Office, the Office of Equity and Diversity, all division offices, and the Student Services office.

WAIT TIME FOR LATE INSTRUCTORS

If, due to unforeseen emergencies, the instructor does not arrive at the scheduled start time for class, students are to wait for fifteen minutes (unless otherwise notified by the division). If they do not receive notification to wait for their instructor to arrive, after 15 minutes the students may leave with no penalty for absence or assigned work due for that class meeting.