

# MATH 101A – Calculus

Section 034412 Fall '07

TTh 2:15–5pm Rm. 6205

INSTRUCTOR: Rob Smedfjeld

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OFFICE HOURS: TTh 1-2pm, F 11am-12pm

MATH LEARNING CENTER HOURS: M 4-5pm, TTh 5:30-7pm, F 2:30-3:30pm

PREREQUISITE: At least a C in Math 188 or equivalent

TEXT: Calculus Early Transcendental Functions, 3rd Ed. by Smith & Minton

COURSE MATERIAL: Chapters 0 through 4 of the text, excluding 0.6, 1.7, & 3.9.

CALCULATORS: Each student must have his/her own graphing calculator, such as a TI-84 or TI-86.

EXAMS: There will be three in-class exams, each exam counting for 20% of the course grade. Make-up exams will not be given without receiving approval prior to the exam.

PRACTICE QUIZZES & PARTICIPATION: Take-home quizzes will be given throughout the semester, each due at the beginning of the next class. Quizzes turned in after the beginning of class will be considered late and may have points deducted. The average of all of the quiz grades, combined with class participation, will count for 20% of the course grade.

HOMEWORK: It is your responsibility to make sure that you understand and can do all homework problems assigned – homework will not be collected. Questions about specific homework problems will be discussed in class, as time permits. Whether or not a question has been addressed in class, please feel free to ask any questions about homework problems or other material during office hours or Math Learning Center hours or other times by appointment.

ATTENDANCE: In all cases, you are responsible for everything covered and/or announced during any class time you miss. Excessive latenesses and absences will affect your grade through the quiz/participation grade. If you are absent for the equivalent of 4 or more classes, you may be dropped from the class. All students should be respectful of others by turning off their cell phones, not having side conversations, and not creating other distractions during classtime.

FINAL EXAM: The final exam will cover the entire course, with a slight emphasis on the material from Chapter 4. The final exam is scheduled for Tuesday, December 11th, 2:30-4:30pm. The final will count for 20% of the course grade.

GRADE BREAKDOWN:	Quizzes & Participation	20%
	Exams	60% (20% for each of three exams)
	<u>Final Exam</u>	<u>20%</u>
	Total	100%

A = 90-100% B = 80-89% C = 70-79% D = 60-69% F = below 60%

## Academic Integrity

"Academic dishonesty defrauds all those who depend upon the integrity of the College, its courses, and its degrees and certificates."

- Ohlone College Board Regulation 7.8.4

“At Ohlone, cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means.

Cheating at Ohlone includes but is not limited to the following:

1. Copying, in part or in whole, from another's test or other evaluation instrument or obtaining answers from another person during the test;
2. Submitting work previously presented in another course, if contrary to the rules of either course;
3. Using or consulting during an examination sources or materials not authorized by the instructor;
4. Altering or interfering with grading or grading instructions;
5. Sitting for an examination by a surrogate, or as a surrogate;
6. Any other act committed by a student in the course of his or her academic work which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.”

- Ohlone College Board Regulation 7.8.4.1 (underlining added)

The Ohlone College Board Regulations recommend the following sanctions for violations of Items 1, 2, and 3 above:

- Failure on the evaluation instrument (paper or exam)
- Reduction in course grade, including possible failure of course

In this class, one of these two sanctions will be applied to any violation of items 1 through 5 above - the choice of sanction will depend on the scope of the violation. In addition, as required by Board Regulations, the violation will be reported to the Associate Vice President of Student Services, who may apply further administrative sanctions, including suspension or expulsion.

Violations of Item 6 above - including, specifically, incidents where one student knowingly assists another student in cheating - will have the same academic sanctions applied as listed above.

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## Homework Assignments

<u>Section</u>	<u>Problem Numbers</u>
0.1	23, 41, 43, 45, 61, 63, 65, 71, 73, 77*, 79 * For #77, solve your answer for T
0.2	19, 25, 29, 35, 37, 39, 41, 53, 55, 61
0.3	3, 5, 13, 15, 17, 39, 43*, 53 * For #43, the inverse function needs a restricted domain
0.4	5, 7, 9, 11, 37, 39, 41, 43, 45, 47, 53, 55, 57, 59, 61, 63, 65, 69, 73, 77
0.5	5, 11, 13, 15, 19, 25, 27*, 29, 31, 33, 35, 37, 39, 47, 49, 69, 72, 73, 75 * The answer for #27 should have a vertical asymptote and an x-int of 0.5
1.1	3, 7, 11, 13*, 21* * Note the exact values for #13 & #21 are $\sqrt{17}+0.25\ln(4+\sqrt{17})$ and $4/3$ , respectively
1.2	1*, 3, 5, 7, 17, 19, 21, 25, 31, 41 * For #1, delete extra part of graph (on the interval $2 < x < 4$ )
1.3	3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 63, 65, 71, 73, 77
1.4	3, 7, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 41, 45, 47, 49, 63, 65
1.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 23, 25, 27, 29, 31, 33, 49, 51, 73, 75, 77, 79
1.6	11, 13, 15, 17, 19, 51
2.1	7, 17, 19, 21, 23, 25, 27, 29, 35, 47, 51
2.2	5, 7, 9, 11, 13, 14, 15, 16, 17, 18, 25, 39, 45, 49, 51, 53
2.3	1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 45
2.4	3, 5, 7, 9, 11, 13, 17, 19, 21, 23, 29, 37, 41 (simplify all answers)
2.5	5, 7, 9, 11, 17, 19, 23, 25, 33, 45, 55
2.6	5, 7, 9, 11, 13, 15, 17, 19, 25, 27, 29, 31, 33, 37, 43
2.7	1, 3, 5, 7, 9, 11, 13, 15, 17, 23, 25, 27, 29, 39*, 41*, 43*, 49, 51, 53 * For #39-43, wait until material from 2.8 is completed
2.8	5, 7, 9, 15, 17, 19, 23, 29, 31, 33, 35, 37, 45
2.9	1, 3, 5, 27, 35, 37, 45

(continued on back)

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## Homework Assignments

<u>Section</u>	<u>Problem Numbers</u>
3.1	1, 3, 5, 7, 9, 17, 19, 25, 27, 29, 31, 35, 37, 41, 43, 47, 63
3.2	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, and p. 204 #45
3.3	5, 7, 9, 13, 15, 17, 21, 23, 25, 27, 29, 31, 33, 35, 37, 51, 69
3.4	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 29, 33, 35, 36, 37, 38, 51, 53, 55
3.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 41, 42, 43, 44, 59
3.6	1, 5, 7, 15, 17, 21, 39, 41, 43, 45, 49, 51, 53
3.7	3, 5, 7, 9, 11, 15, 17, 23, 25, 27, 31*, 33, 35, 43 * For #31, wood trim includes the cross piece
3.8	1, 5, 9, 11*, 13, 23, 25, 27, 31**, 37 * For #11, answer should be positive ** For #31, appropriate units of measurement should be included
4.1	5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 39, 41, 43, 45*, 47, 49, 51, 61 * For #45, answer should have just $c_1$ for the coefficient of $x^2$
4.2	7, 11, 15, 17, 19, 21, 35
4.3	1, 3, 15, 17, 35, 37
4.4	5, 7, 9, 11, 13, 15, 17, 21, 23, 35, 37, 41, 43, 47, 53, 55, 57
4.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 25, 27, 29, 31, 37, 39, 41, 43, 45, 47, 49, 53, 55, 57, 71
4.6	5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39
4.7	1, 3, 19, 21, 23* * For #23, answers should be: (a) 0.141 (b) 0.281
4.8	13, 15, 17, 19, 21, 23, 25, 27, 29