

MATH-1C

Calculus (3rd level)

Winter 2009

MATH-001B.09 Monday through Friday: 9:30am-10:20pm in S45

INSTRUCTOR: Dr. Iaroslav Kryliouk **OFFICE:** S76C

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OFFICE HOURS: MTWThF: 8:55am-9:25am, 11:30am-12:00 in S76C.

Course Description: Infinite series, lines and surfaces in three dimensions, vectors in two and three dimensions, parametric equations of curves. Derivatives and integrals of vector functions.

Text: *Calculus (early transcendental functions)*, by Smith and Minton, McGraw-Hill, 2007, 3rd edition.

Prerequisites: MATH-1B with a grade of C or better, or equivalent.

Reading your textbook will be essential. The exercise sets are written with the intent to forcing the student to approach problems graphically and numerically, as well as the traditional symbolic (algebraic) approach. There is such variety in the exercise sets, that a few lecture examples often can't illustrate every type of question in the homework. This make the reading a crucial part of the student's day-to-day work. The De Anza College catalog advises students to do at least 2 hours of work outside the classroom for each hour spent in class.

Technology: Students must have a graphing calculator. The instructor will use a Texas Instruments TI-84 plus in lectures. Consequently, the TI-84 plus (or TI-84, TI-83+, TI-83) is recommended for the students, but any graphing calculator that has a "table" feature is acceptable. (The old TI-81 and TI-85 models do *not* have a table feature!). *Any calculators that can do symbolic mathematics such as TI-89 or HP-49 are not allowed on exams and quizzes.*

Quizzes: There will be about 6 quizzes. The lowest score will be dropped.

Tests: There will be four (4) tests worth 100 points each. Unless otherwise indicated, the graphics calculator will be required for tests. Material from any lecture, homework assignment, or quiz may appear on test day.

The tentative schedule (subject to revision) of tests and the material covered is the following:

Test 1: Jan 16, sec. 8.1-8.5

Test 2: Feb 3, sec. 8.6-8.9

Test 3: Feb 27, sec. 9.1-9.5, 10.1-10.4

Test 4: Mar 20, sec. 10.5, 10.6, 11.1-11.5

Makeup Tests: There are no make –up tests, *under any circumstances*. If a test is missed, the percentage on the final exam will replace the score of the missing exam. If a second exam is missed, the grade will be a zero.

The lowest score of 4 regular tests will be replaced by a percentage on the final exam, provided the latter is higher.

Final Exam: There will be a mandatory comprehensive two-hour final exam worth 200 points, and this exam *must* be taken during the scheduled exam time on Friday, March 27, 9:15am-11:15am.

Homework: Assignments will be given each class period but not collected. It is *strongly* recommended that you do complete the homework assignments since you will find them (or similar ones) in the quizzes and exams. You may find some of the problems quite hard because they are about concepts rather than calculations. For this reason it may be very helpful to work on these assignments in small groups. It is your responsibility as college student to check that your answers and solutions are correct, and to correct any mistakes or misunderstandings.

Projects: From time to time you may have mini-projects. Points earned for mini-projects will apply to your total grade. These are bonus points!

Attendance: Attendance will be taken at each session. **You are expected to attend all classes on time.** If you miss 3 class meetings, you may be dropped from the class. However this is your responsibility to drop the course officially if you decide not to attend any longer. The students are responsible for any material covered and any announcements made in their absence.

Final Grade: Your final grade will be determined based on the following:

Grading Scale:

Quizzes	100 pts	X \geq 675 (96.5%)=A+	X \geq 528 (75.5%)=C+
Test 1	100 pts	X \geq 651 (93%)=A	X \geq 490 (70%)=C
Test 2	100 pts	X \geq 626 (89.5%)=A-	X \geq 420 (60%)=D
Test 3	100 pts	X \geq 602 (86%)=B+	X \leq 420 (60%)=F
Test 4	100 pts	X \geq 577 (82.5%)=B	
Final Exam	200 pts	X \geq 553 (79.0%)=B-	
Total Points	X=700 pts		

Missing one of the major tests is made up through added weight on the comprehensive final exam. Missing additional tests results in a score of zero.

***** NO OTHER MAKE-UPS WILL BE GIVEN*****

A grade of “I” (incomplete) will be given at the instructor’s discretion, if:

- i) A student has successfully completed at least 75% of the course work, and
- ii) has shown acceptable evidence which justifies his/her incomplete work.

Important Dates:

Jan 5-Winter quarter classes begin
Jan 17-Last day to add quarter-length class
Jan 16-Last day to drop for a refund
Jan 16-Test 1
Jan 19-Martin Luther King’s Birthday (college closed)
Jan 24-Last day to drop a class with no record of grade
Jan 30-Last day to request pass/no pass
Feb 3-Test 2
Feb 28-Last day to drop with “W”
Mar 13-Last day to add CAOS and Skills self-paced classes
Mar 20-Test 4
Mar 23-Winter quarter classes end
March 27, Friday, 9:15am-11:15am -Final Exam

*** (N.B.: It is the student’s responsibility to complete the withdrawal process. Student who stop attending class are NOT automatically dropped. A student who stops attending class and does not complete the withdrawal process receives the grade of “F”)

Academic Misconduct: Academic dishonesty will not be tolerated. If a student is found cheating on an exam, plagiarizing on writing assignments, or violating other codes of academic integrity, he or she will receive a failing grade for the course and may be reported to the college for an appropriate action. See section on Academic integrity in your current schedule of classes catalog.

If you are student with a disability: For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see contacts below:

Disability Support Service (DSS): Student Services Building (408) 864-8753; TTY 408) 864-8753

Educational Diagnostic Center (EDC): Learning Center West 110; (408) 864-8839

Special Education Division: 864-8407; www.deanza.edu/specialed

TENTATIVE CALENDAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JAN	5 8.1	6 8.1/8.2	7 8.2	8 8.3	9 8.3
JAN	12 <i>Quiz 1</i>	13 8.4	14 8.5	15 8.5 Review	16 TEST 1 Last day to add/drop for a refund
JAN	19 Martin Luther King's Jr Birthday (college closed)	20 8.6	21 8.6	22 8.7	23 8.7
JAN	26 8.8	27 8.8	28 8.9	29 8.9	30 <i>Quiz 2</i> Last day to request Pass/No Pass grade
FEB	2 Review	3 TEST 2	4 9.1	5 9.2	6 9.3
FEB	9 9.3	10 9.4	11 9.5	12 <i>Quiz 3</i>	13 Lincoln's Birthday (college closed)
FEB	16 Washington's Birthday (college closed)	17 10.1	18 10.2	19 10.3	20 10.3
FEB	23 10.4	24 10.4	25 <i>Quiz 4</i>	26 Review	27 TEST 3 Last day to drop with a "W"
MAR	2 10.5	3 10.6	4 10.6	5 <i>Quiz 5</i>	6 11.1
MAR	9 11.2	10 11.3	11 11.3	12 11.4	13 11.5
MAR	16 11.5	17 11.6	18 11.6	19 <i>Quiz 6</i> Review	20 TEST 4
MAR	23 Review For Final Exam				27 Final Exam 9:15am-11:15am

Homework (TENTATIVE)

Section	Problems
8.1	Wr. Ex. 1,4; #3,6(a,b),10(a,b),11,13,14,16,20,23,26,30,36,41,42,46,55-57
8.2	Wr. Ex. 1,3; #6,8,12,17,21,27,31,36,44,50,54
8.3	Wr. Ex. 1-3; #2,5,10,14,20,22,26,33,36,39,45,48,53,55,57
8.4	Wr. Ex. 4; #1-21(eoo),26,31,34,35,41,43,44,45
8.5	Wr. Ex. 2; #1-31(eoo),41,42,43
8.6	Wr. Ex. 2,4; #2,3,6,9,13,16,22,28,31,34,36,38,39,41
8.7	#2,4,7,10,12,16,20,21,22,23,23,24,25,30,31,34,38,40,49,55,56
8.8	#2,6,8,10,12,14,16,17,23,24,33,38,45,46
8.9	#1,4,8,10,13,15,18,21,22,23,32
9.1	Wr. Ex. 1,3;#2,4,6,8,10,15,20,24-30,32,35,39,42,43,49
9.2	#1,6,8,12,18,19,21,24,38,41,42
9.3	#1-11(odd),13,17,22-26(even),29,30
9.4	Wr. Ex. 3; #1,4,11,12,14,17,19,21,24,26,28-48(eoe),57,59,61,62
9.5	Wr. Ex. 1; #2-10(even),12,13,15,18,21,25,29,32,33,47,49
10.1	#1,4,12,13,16,19,24,25,28,31,35,37,41,45,52,53
10.2	#2,4,7,9,11,15,17,19,22,25,28,31,33,36,38,44,45,48,49,51,56-62(even)
10.3	Wr. Ex. 2; #1,5,7,8,14,17,19-23(odd),29,31,33,34,39,46,47,53,58,61,63
10.4	Wr. Ex. 1,3; #1,4,6,7,10,14,15,18,22,24,25,29,41-46,48,50,52,62,63,66,67
10.5	Wr. Ex. 3; #2,5,6,9,11,15,20,22,24,27,29,33,37,42,44,46,48,50,53,55-62
10.6	#1-37(eoo),47,50
11.1	Wr. Ex. 2; #1,4,7-17(eoo),20,21,31,38,42,49
11.2	Wr. Ex. 4; #1,4,6,12,13,18,21,25,31,34,36,41,43,49
11.3	Wr. Ex. 2; #1,3,6,10,14,16,19,23,28,47,55,56
11.4	Wr. Ex. 1,2; #1,4,5,8,10,15-21(odd),26,30,31,33,36,45,48,51,53
11.5	Wr. Ex. 1,2; #2-8(even),9,12,13,16,19,25-28,32,38,44,45,46