

MATH-49A.05 Monday through Friday: 9:30am-10:20am in S49

INSTRUCTOR: Dr. Iaroslav Kryliouk **OFFICE:** S76

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OFFICE HOURS: Daily, 11:30am-12:20pm. Additionally, I consult my students on Wednesdays, 1:30-2:30pm, at the Tutorial Center in S43.

Course Description: This course in combination with M49B and M51 Trigonometry will prepare students to take the calculus sequence. The course includes an in-depth study of functions; polynomial, rational, algebraic, piecewise, logarithmic, and exponential functions; their properties, graphs, and applications; conic sections; nonlinear inequalities.

Text: *Precalculus with Limits*, by Larson & Hostetler, Houghton Mufflin Company, 2007. *Older editions of Larson's previous precalculus books are different and are NOT appropriate for this class.*

More than ever in your past mathematics experience, *reading* your textbook will be essential. The exercise sets are written with the intent of 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 makes 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.*

Pre-requisite: M51 Trigonometry with grade C or better, or satisfactory score on Calculus Readiness Test within the last calendar year.

Quizzes: There will be 4 quizzes 25 points each.

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 is fair game on test day. Be advised that all in-class assessments are closed book and closed notes ones.

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

Test 1: October 12, Chapter 1.

Test 2: November 2, Chapter 2, A6.

Test 3: November 17, Chapter 3.

Test 4: December 3, Chapter 10, Sec. 10.1-10.5.

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 Thursday, Dec 10, 9:15am-11:15 am.

Homework (HW): Assignments will be given each class period. 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 a college student to check that your answers and solutions are correct, and to correct any mistakes or misunderstandings. The instructor periodically will collect and grade the small subset of the selected homework problems on the short 24-hour announcement. The turned in homework papers should include solutions of the selected problems only.

Mini-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, HW (100+50)	150 pts	X>=723 (96.5%)=A+	X>=566 (75.5%)=C+
Test 1	100 pts	X>=697 (93%)=A	X>=525 (70%)=C
Test 2	100 pts	X>=671 (89.5%)=A-	X>=450 (60%)=D
Test 3	100 pts	X>=645 (86%)=B+	X<=450 (60%)=F
Test 4	100 pts	X>=818 (82.5%)=B	
<u>Final Exam</u>	<u>200 pts</u>	X>=592 (79.0%)=B-	
Total Points	X=750 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:

Sep 21-Fall quarter classes begin

Sep 26-Last day to drop for a full refund or credit (for out-of-state or foreign students)

Oct 3- Last day to add/drop Fall Quarter classes

Oct 9-Last day to drop a class with no record of grade

Oct 12- Test 1

Oct 16-Last day to request pass/no pass

Nov 2--Test 2

Nov 13-Last day to drop with “W”

Nov 17--Test 3

Nov 25- Last day to add CAOS self-placed classes

Dec 3—Test 4

Dec 10-Final Exam, 9:15-11:15 am in S49

*** (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

M49A

DE ANZA COLLEGE

FALL QUARTER 2009

TENTATIVE CALENDAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
SEP	21 classes start Sec. 1.1	22 Sec. 1.1	23 Sec. 1.2	24 Sec. 1.3	25 Sec. 1.3
SEP / OCT	28 Sec. 1.4	29 Sec. 1.5	30 Sec. 1.5	1 Quiz 1	2 Sec. 1.6
OCT	5 Sec. 1.7	6 Sec. 1.8	7 Sec. 1.9	8 Sec. 1.10	9 Last day to drop Review
OCT	12 Test (Ch 1)	13 Sec. 2.1	14 Sec. 2.1	15 Sec. 2.2	16 Last day to request Pass/No Pass Sec. 2.3
OCT	19 Sec. 2.4	20 Sec. 2.4	21 Quiz 2	22 Sec. 2.5	23 Sec. 2.5
OCT	26 Sec. 2.6	27 Sec. 2.6	28 Sec. A6	29 Sec. 2.7	30 Review
NOV	2 Test 2 (Ch.2)	3 Sec. 3.1	4 Sec. 3.1	5 Quiz 3	6 Sec. 3.2
NOV	9 Sec. 3.3	10 Sec. 3.4	11 Sec. 3.4	12 Sec. 3.5	13 Veteran's Day NO classes
NOV	16 Sec. 3.5 Review	17 Test 3 (Ch. 3)	18 Sec. 10.2	19 Sec. 10.2	20 Sec. 10.3
NOV	23 Sec. 10.3	24 Quiz 4	25 Sec. 10.4	26 THANKSGIVING HOLIDAY NO CLASSES	27 NO CLASSES
NOV / DEC	30 Sec. 10.4	1 Sec. 10.5	2 Sec. 10.5 Review	3 Test 4 (Ch 10)	4 Review for FE
DEC	7 Review for FE	8	9	10 Final Exam 9:15-11:15	11

Homework (TENTATIVE)

Section	Problems
1.1	##1,5,9,19,21,23,29,33,48,49,55,56.
1.2	##1,5,7,9,17,19,21,23,29,31,47,49,59,67,71.
1.3	##1-17(odd)43,45,51,61,63,65,69,95,97,105,113.
1.4	7,13,17,24,28,31,37,45-51(odd),55,61,62,64,67,81,89,93,95
1.5	Voc.1,3,4,5,7,8;##1,3,5,8,11,15,17,23,41,44,51,53,57,59,71, 73,75,94
1.6	##5,13,21,23,27,37,41,43,63
1.7	Voc. 1-6(all);##1-85 every other odd
1.8	##5,9,13,17,23,27,29,31-37(odd)51,65,67
1.9	Voc.1-5(all);##1-23(odd),33,35,39,43,49,55,80,82
1.10	##1,3,9,11,13,17,25,29,35,63,65,69,73-78(all)
2.1	Voc.1-5;##3,5,13,17,21,21,23,25,33,37,41,43,47,57,59,65, 71,73,76,79,81,85
2.2	##1-7(odd);##9,15,29,33,37,51,55,63,67,71,75,89
2.3	Voc.1-5(all);##5,8,9,11,27,31,45,49
2.4	##1-,21(odd),27,31,33,39,41,43,45,47,53,55,57,67,75
2.5	Voc.1-(all);##2,5,7,11,14,19,22,25,30,37,42,50,54,61,67,79, 86,88,92,100,104,111
2.6	Voc.1-4(all);##1-73 every other odd, 77
Appendix 6	Voc.1-6(all);##1-89 every other odd
2.7	Voc.1-3(all);##1-73 every other odd, 75
3.1	Voc.1-5(all);##7-11(all),19,23,31,37,45-51(odd),57,61,67
3.2	Voc. 1-5(all);##2-9,61-95 every other odd, 90
3.3	Voc.1-5(all);##1-75 every other odd, 81,83
3.4	Voc.1-3(all);##1-109 every other odd,116
3.5	Voc. 1-5(all);##1-6,9,11,15,25,29,35,42,4353,55,59,65
10.2	1-7(all);##5-9(odd),11,15,19,23,25,27,31-41(odd),61,62
10.3	Voc.1-4(all);##1- 7(all),11,17,21,25,31,37,41,43,49,50,56,57,59,60,62
10.4	Voc.1-5(all);##1-4,5,7,11,19,21,23,30,34,38,43,45,47,53
10.5	##3,5,7,11,15,33,45