

MATH-43-10 Monday through Friday: 11:30am-12:20pm in S16

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

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OFFICE HOURS: M-F, 9:45am-10:15 am and 12:25pm-12:45pm in S76C.

Tutorial Center: S43

Prerequisite: Mathematics 41 and 42 (both with grade of C or better) or satisfactory score on the Calculus Readiness Test within the last calendar year.

Course Description: Systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates.

Text: *Precalculus with Limits*, 3rd edition, Larson, Cengage 2011

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 using 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 5 quizzes 25 points each. 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 can appear as a test question.

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

Test 1: Oct 10, Hyperbolic Functions, Sec.10.6-10.9

Test 2: Oct 30, Sec. 7.1, 7.3-7.5; 8.1-8.5.

Test 3: Nov 19, Sec. 9.1-9.7.

Test 4: Dec 4, Sec.11.1-11.4.

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 Monday, Dec 10, 11:30am-1:30pm in S16.

Homework: WEBASSIGN: <http://www.webassign.net>

- **Online homework system: REQUIRED** in this class
- You are required to do homework and turn in it by the weekly due dates using Webassign. Homework will be graded in Webassign.

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:

Homework	100 pts		
Quizzes	100 pts	X \geq 772 (96.5%)=A+	X \geq 604 (75.5%)=C+
Test 1	100 pts	X \geq 744 (93%)=A	X \geq 560 (70%)=C
Test 2	100 pts	X \geq 716 (89.5%)=A-	X \geq 480 (60%)=D
Test 3	100 pts	X \geq 688 (86%)=B+	X $<$ 480 (60%)=F
Test 4	100 pts	X \geq 660 (82.5%)=B	
<u>Final Exam</u>	<u>200 pts</u>	X \geq 632 (79.0%)=B-	
Total Points	X=800 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:

Monday, Sept 24-Fall quarter classes begin
Saturday, Oct 6-Last day to add classes
Sunday, Oct 7-Last day to drop classes with no record of “W”
Wednesday, Oct 10-Test 1, (Hyperbolic functions, 10.6-10.9)
Friday, Oct 19-Last day to request P/NP grade
Tuesday, Oct 30 -Test 2, (7.1, 7.3, 7.5, 8.1-8.5)
Monday, Nov 9-Veteran’s Day
Friday, Nov 16-Last day to drop with a “W”
Monday, Nov 19-Test 3, (9.1-9.7)
Thursday-Sunday, Nov 29-Dec 2-Thanksgiving Holiday Recess (college closed)
Tuesday, Dec 4-Test 4, (11.1-11.4)
Monday, Dec 10-Final exam 11:30am-1:30pm, in S16

*** (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/special

TENTATIVE CALENDAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Sep	24 classes start Hyperbolic functions	25 Hyperbolic functions	26 Hyperbolic functions	27 Sec. 10.6	28 Sec. 10.6
Oct	1 Sec. 10.7	2 Sec. 10.8	3 Sec. 10.8	4 Sec. 10.9	5 Sec. 10.9 Saturday, Oct 6: Last day to add Sunday, Oct 7: Last day to drop classes with no record of "W"
Oct	8 <i>Quiz 1</i>	9 Review for Test 1	10 Test 1 (Hyperbolic functions, 10.6-10.9)	11 Sec. 7.1	12 Sec. 7.3
Oct	15 Sec. 7.4	16 Sec.7.5	17 <i>Quiz 2</i>	18 Sec. 8.1	19 Last day to request pass/no pass Sec. 8.2
Oct	22 Sec.8.3	23 Sec. 8. 4	24 Sec. 8.5	25 Sec. 8.5	26 <i>Quiz 3</i>
Oct / Nov	29 Review for Test 2	30 Test 2 (7.1,7.3,7.5, 8.1-8.5)	31 Sec. 9.1	1 Sec. 9.2	2 Sec. 9.3
Nov	5 Sec. 9.4	6 Sec 9.4	7 Sec. 9.5	8 Sec. 9.5	9 Sec. 9.6
Nov	12 Veteran's Day	13 Sec. 9.7	14 Sec. 9.7	15 <i>Quiz 4</i>	16 Last day to drop w/"W" Review for Test 3
Nov	19 Test 3 (9.1-9.7)	20 Sec. 11.1	21 Sec. 11.2	22 Sec. 11.3	23 Sec. 11.4
Nov	26 Sec. 11.4	27 <i>Quiz 5</i>	28 Review for Test 4	29 Thanksgiving	30 Holiday
Dec	3 Review for Test 4	4 Test 4 (11.1-11.4)	5 Review for Final Exam	6 Review for Final Exam	7 Review for Final Exam
Dec	10 Final Exam: 11:30am-1:30pm	11	12	13	14

Student Learning Outcome(s):

*Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects.

*Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections.

*Analyze, develop, and evaluate formulas for sequences and series; Justify those formulas by mathematical induction.