

MATH-D001C-03 Monday through Friday: 7:30am-8:20am in E31

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

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OFFICE HOURS: Daily, 9:45am-10:15am in S76C; Daily, except Friday, 1:25pm-1:45pm; or by an appointment.

Tutorial Center: S43

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 Transcendentals*, 8th Ed, Stewart, Cengage 2011.

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 3 in-class quizzes.

Tests: There will be four 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: April 23, sec. 10.1-10.4, 10.6

Test 2: May 11, sec. 11.1-11.7

Test 3: May 25, sec. 11.8-11.11

Test 4: Jun 21, sec. 12.1-12.6, 13.1-13.4

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, June 25, 7:00am-9:00 am in E31.

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 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 two 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

| | | | |
|-------------------|----------------|-------------------------|-------------------------|
| (90+60) | 150 pts | X \geq 723 (96.5%)=A+ | X \geq 566 (75.5%)=C+ |
| Test 1 | 100 pts | X \geq 697 (93%)=A | X \geq 525 (70%)=C |
| Test 2 | 100 pts | X \geq 671 (89.5%)=A- | X \geq 450 (60%)=D |
| Test 3 | 100 pts | X \geq 645 (86%)=B+ | X $<$ 450 (60%)=F |
| Test 4 | 100 pts | X \geq 618 (82.5%)=B | |
| <u>Final Exam</u> | <u>200 pts</u> | X \geq 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:

Monday, Apr 9-Spring quarter classes begin

Saturday, Apr 21-Last day to add for a refund or credit for residents

Sunday, Apr 22-Last day to drop a class with no record of grade (Drop date is enforced)

Monday, Apr 23-Test 1 (Sec. 10.1-10.4, 10.6)

Friday, May 4-Last day to request P/NP grade

Friday, May 11-Test 2 (Sec 11.1-11.7)

Friday, May 25-Test 3 (Sec. 11-8-11.11)

Saturday-Monday, May 26-28-Memorial Day weekend (no classes)

Friday, June 1-Last day to drop with a “W” (withdraw date is enforced)

Thursday, Jun 21-Test 4 (Sec. 12.1-12.6, 13.1-13.4)

Friday, Jun 21- Last day of classes

Monday, June 25 -Final exam 7:00am-9:00 am, in E31

*** (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 |
|-----------------|--|-------------------------|---------------------------------------|--|---|
| APR | 9 classes start Syllabus | 10 Sec. 10.1 | 11 Sec. 10.2 | 12 Sec. 10.2 | 13 <i>Quiz 1 (10.1,10.2)</i> |
| APR | 16 Sec. 10.3 | 17 Sec. 10.4 | 18 Sec. 10.4 | 19 Sec. 10.6 | 20 Review for Test 1 Saturday, Apr 21, Last day to add Sunday, April 22, Last day to drop for a refund; Last day to drop with no record |
| APR | 23 Test 1(Ch 10) | 24 Sec. 11.1 | 25 Sec. 11.1 | 26 Sec. 11.2 | 27 Sec. 11.3 |
| APR / MAY | 30 Sec. 11.3 | 1 Sec. 11.4 | 2 Sec. 11.5 | 3 Sec. 11.6 | 4 Last day to request Pass/No Pass grade Sec. 11.6 |
| MAY | 7 Sec. 11.7 | 8 Sec. 11.7 | 9 <i>Quiz 2 (11.1-11.7)</i> | 10 Review for Test 2 | 11 Test 2 (11.1-11.7) |
| MAY | 14 Sec. 11.8 | 15 Sec. 11.8 | 16 Sec. 11.9 | 17 Sec. 11.9 | 18 Sec. 11.10 |
| MAY | 21 Sec. 11.10 | 22 Sec. 11.11 | 23 Sec. 11.11 | 24 Review for Test 3 | 25 Test 3 (11.8-11.11) |
| MAY / JUN | 28 Memorial Day | 29 Sec. 12.1 | 30 Sec. 12.2 | 31 Sec. 12.3 | 1 Last day to withdraw with a "W" Sec. 12.4 |
| JUN | 4 Sec. 12.5 | 5 Sec. 12.6 | 6 Sec. 12.6 | 7 <i>Quiz 3 (12.1-12.6)</i> | 8 Sec. 13.1 |
| JUN | 11 Sec. 13.1 | 12 Sec. 13.2 | 13 Sec. 13.2 | 14 Sec. 13.3 | 15 Sec. 13.3 |
| JUN | 18 Sec. 13.4 | 19 Sec. 13.4 | 20 Review for Test 4 | 21 Test 4 (Ch 12 and Ch 13) | 22 Review for FE |
| JUN | 25 Final Exam 7:00-9:00am | 26 | 27 | 28 | 29 |

Student Learning Outcome(s):

*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.

*Apply infinite sequences and series in approximating functions.

*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.