MATH-1C       Calculus (3rd level)       Spring 2015

MATH-D001C-11   Monday through Friday: 12:30pm-1:20pm in E33
INSTRUCTOR: Dr. Iaroslav Kryliouk  OFFICE: S76C
PHONE (408)-864-8865  E-MAIL:krylioukiaroslav@deanza.edu
OFFICE HOURS: Daily, 10:30am-11:30 pm in S76C; 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.

Student Learning Outcomes for the course:
Outcome 1: Graphically, analytically, numerically and verbally analyze infinite sequences
and series from the perspective of convergence, using correct notation and mathematical
precision.
Outcome 2: Apply infinite sequences and series in approximating functions.
Outcome 3: Synthesize and apply vectors, polar coordinate system and parametric
representations in solving problems in analytical geometry, including motion in space.

Text: Calculus, Early Transcendentals, 7th Ed. or 7th Ed. CA custom, 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 20, sec. 10.1-10.4, 10.6  
**Test 2:** May 8, sec. 11.1-11.7  
**Test 3:** May 22, sec. 11.8-11.11  
**Test 4:** Jun 18, 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 Tuesday, June 23, 11:30am-1:30 pm in E33.

**Homework:** WEBASSIGN: [http://www.webassign.net](http://www.webassign.net)  
- Online homework system: REQUIRED in this class  
- You are required to do homework and turn it in 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:**

<table>
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<tr>
<th>Component</th>
<th>Points</th>
<th>Grade Calculation</th>
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<tbody>
<tr>
<td>Quizzes+HW</td>
<td>150</td>
<td>X&gt;=723 (96.5%)=A+</td>
</tr>
<tr>
<td>(90+60)</td>
<td>100</td>
<td>X&gt;=697 (93%)=A</td>
</tr>
<tr>
<td>Test 1</td>
<td>100</td>
<td>X&gt;=671 (89.5%)=A-</td>
</tr>
<tr>
<td>Test 2</td>
<td>100</td>
<td>X&gt;=645 (86%)=B+</td>
</tr>
<tr>
<td>Test 3</td>
<td>100</td>
<td>X&gt;=618 (82.5%)=B</td>
</tr>
<tr>
<td>Test 4</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
<td>X&gt;=592 (79.0%)=B-</td>
</tr>
<tr>
<td>Total Points</td>
<td>750</td>
<td>X=750 pts</td>
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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 6-Spring quarter classes begin
Saturday, Apr 11-Last day to drop for a refund for out-of-state or foreign students
Saturday, Apr 18-Last day to add/drop for a refund or credit for residents
Sunday, Apr 19-Last day to drop a class with no record of grade (Drop date is enforced)
Monday, Apr 20-Test 1 (Sec. 10.1-10.4, 10.6)
Friday, May 1-Last day to request P/NP grade
Friday, May 8-Test 2 (Sec 11.1-11.7)
Friday, May 22-Test 3 (Sec. 11.8-11.11)
Monday, May 25-Memorial Day (no classes)
Friday, May 29-Last day to drop with a “W” (withdraw date is enforced)
Thursday, Jun 18-Test 4 (Sec. 12.1-12.6, 13.1-13.4)
Monday, Jun 22- Last day of classes
Tuesday, June 23 -Final exam 11:30am-1:30 pm, in E33

*** (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
<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
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<tbody>
<tr>
<td>APR</td>
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</table>
| 6            | 7             | 8             | 9             | 10
tentative
| classes      | start         | Syllabus      |               | Quiz 1 (10.1,10.2)
| start        |               |               |               | Apr 11, Last day to drop for a refund for
|               |               |               |               | out-of-state or foreign students
| APR          |               |               |               |                                             |
| 13           | 14            | 15            | 16            | 17
| Sec. 10.3    | Sec. 10.4     | Sec. 10.4     | Sec. 10.6     | Review for Test 1
|              |               |               |               | Saturday, Apr 18, Last day to add
|              |               |               |               | Last day to drop for a refund
|              |               |               |               | Sunday, Apr 19, Last day to drop with no
|              |               |               |               | record
| APR          |               |               |               |                                             |
| 20           | 21            | 22            | 23            | 24
| Test 1 (Ch 10)| Sec. 11.1     | Sec. 11.1     | Sec. 11.2     | Sec. 11.3
|              |               |               |               |                                             |
| APR / MAY    |               |               |               |                                             |
| 27           | 28            | 29            | 30            | 1
| Sec. 11.3    | Sec. 11.4     | Sec. 11.5     | Sec. 11.6     | Last day to request Pass/No Pass grade
|              |               |               |               | Sec. 11.6
| MAY          |               |               |               |                                             |
| 4            | 5             | 6             | 7             | 8
| Sec. 11.7    | Sec. 11.7     | Quiz 2 (11.1-11.7)| Review for Test 2 | Test 2 (11.1-11.7)
|              |               |               |               |                                             |
| MAY          |               |               |               |                                             |
| 11           | 12            | 13            | 14            | 15
| Sec. 11.8    | Sec. 11.8     | Sec. 11.9     | Sec. 11.9     | Sec. 11.10
|              |               |               |               |                                             |
| MAY          |               |               |               |                                             |
| 18           | 19            | 20            | 21            | 22
| Sec. 11.10   | Sec. 11.11    | Sec. 11.11    | Review for Test 3 | Test 3 (11.8-11.11)
|              |               |               |               |                                             |
| MAY          |               |               |               |                                             |
| 25           | 26            | 27            | 28            | 29
| Memorial Day | Sec. 12.1     | Sec. 12.2     | Sec. 12.3     | Last day to withdraw with a “W”
|              |               |               |               | Sec. 12.4
| JUN          |               |               |               |                                             |
| 1            | 2             | 3             | 4             | 5
| Sec. 12.5    | Sec. 12.6     | Sec. 12.6     | Quiz 3 (12.1-12.6) | Sec. 13.1
|              |               |               |               |                                             |
| JUN          |               |               |               |                                             |
| 8            | 9             | 10            | 11            | 12
| Sec. 13.1    | Sec. 13.2     | Sec. 13.2     | Sec. 13.3     | Sec. 13.3
|              |               |               |               |                                             |
| JUN          |               |               |               |                                             |
| 15           | 16            | 17            | 18            | 19
| Sec. 13.4    | Sec. 13.4     | Review for Test 4 | Test 4 (Ch 12 and Ch 13) | Review for FE
|              |               |               |               |                                             |
| JUN          |               |               |               |                                             |
| 22           | 23            | 24            | 25            | 26
| Review for FE | Final Exam 11:30am-1:30pm |               |               |                                             |