

**MATH-1C**

*Calculus (3<sup>rd</sup> level)*

**Spring 2017**

**MATH-D001C-05** Monday through Friday: 9:30am-10:20am in MLC-108

**INSTRUCTOR:** Dr. Iaroslav Kryliouk

**OFFICE:** S76C

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**OFFICE HOURS:** Daily, 10:30am-11:15am 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*, 8<sup>th</sup> 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 24, sec. 10.1-10.4, 10.6

**Test 2:** May 12, sec. 11.1-11.7

**Test 3:** May 26, sec. 11.8-11.11

**Test 4:** Jun 22, 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 27, 9:15am-11:15 am in MLC-108.

**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 10-Spring quarter classes begin

Saturday, Apr 22-Last day to add for a refund or credit for residents

Sunday, Apr 23-Last day to drop a class with no record of grade (Drop date is enforced)

**Monday, Apr 24-Test 1 (Sec. 10.1-10.4, 10.6)**

Friday, May 5-Last day to request P/NP grade

**Friday, May 12-Test 2 (Sec 11.1-11.7)**

**Friday, May 26-Test 3 (Sec. 11-8-11.11)**

**Saturday-Monday, May 27-29-Memorial Day weekend (no classes)**

**Friday, June 2-Last day to drop with a "W" (withdraw date is enforced)**

**Thursday, Jun 22-Test 4 (Sec. 12.1-12.6, 13.1-13.4)**

Monday, Jun 22- Last day of classes

**Tuesday, June 27 -Final exam 9:15am-11:15 am, in MLC-108**

\*\*\* (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](http://www.deanza.edu/specialed)

## TENTATIVE CALENDAR

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