

**MATH-001A.04** Monday through Friday: 9:30am-10:20am in MLC260

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

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**OFFICE HOURS:** M-Th, 10:45am-11:15am and 1:30pm-2:00pm in S76C.

**Tutorial Center:** S43

***Students learning Outcomes:***

1. Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
2. Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
3. Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

**Course Description:** Fundamentals of Differential Calculus.

**Text:** *Calculus, Early Transcendentals*, 7<sup>th</sup> Ed. or 7<sup>th</sup> Ed. CA custom, Stewart, Cengage 2011.

**Prerequisites:** MATH-43 with a grade C or better, or appropriate score on Calculus Placement Test within past calendar year.

*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 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 4 quizzes 20 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.

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

**Test 1:** Oct 15, Chapter 1 and 2.

**Test 2:** Nov 6, Chapter 3.

**Test 3:** Nov 24, Chapter 4 (Sec. 4.1-4.6).

**Test 4:** Dec 5, Chapter 4, (Sec. 4.7-4.9), Chapter 10 (Sec. 10.1-10.2).

**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 Wednesday, Dec 9, 9:15am-11:15am, in MLC260.

**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:**

Quizzes, HW (80+70)	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 $\leq$ 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, Sept 21-Fall quarter classes begin

Saturday, Sept 26-Last day to drop for a refund for out-of-state or foreign students (Drop date is enforced)

Saturday, Oct 3-Last day to add/drop for a refund or credit for residents. Add/drop date is enforced.

Sunday, Oct 4-Last day to drop a class with no record of grade (Drop date is enforced)

**Wednesday, Oct 15-Test 1**, Chapter 1 and 2

Friday, Oct 16-Last day to request P/NP grade

**Thursday, Nov 5 -Test 2**, Chapter 3

**Monday, Nov 9-Veteran's Day**

**Friday, Nov 13**-Last day to drop with a "W" (withdraw date is enforced)

**Monday, Nov 23-Test 3 (Sec 4.1-4.6 (all))**

**Thursday-Sunday, Nov 26-Nov 29-Thanksgiving Holiday Recess (college closed)**

**Friday, Dec 4-Test 4**, Chapter 4, (Sec. 4.7-4.9), Chapter 10 (Sec. 10.1-10.2)

**Wednesday, Dec 9-Final exam** 9:15am-11:15am, in MLC260

\*\*\* (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
SEP	<b>21</b> classes start Sec. 1.1	<b>22</b> Sec. 1. 1	<b>23</b> Sec. 1.2	<b>24</b> Sec. 1.3	<b>25 Saturday, Sept 26:</b> Last day to drop for a refund for out-of-state or foreign students. Drop date is enforced. Sec. 1.4
SEP / OCT	<b>28</b> Sec. 1.5	<b>29</b> Sec. 1.6	<b>30</b> <i>Quiz 1</i>	<b>1</b> Sec. 2.1	<b>2 Saturday, Oct 3:</b> Last day to add Last day to drop for refund for resident students Sec. 2.2
OCT	<b>5</b> Sec. 2.3	<b>6</b> Sec. 2.4	<b>7</b> Sec. 2.5	<b>8</b> Sec. 2.6	<b>9</b> Sec. 2.7
OCT	<b>12</b> Sec. 2.8	<b>13</b> <b>Review</b>	<b>14</b> <b>Test 1(Ch1,2)</b>	<b>15</b> Sec. 3.1	<b>16</b> <b>Last day to request Pass/No Pass</b> Sec. 3.2
OCT	<b>19</b> Sec. 3.3	<b>20</b> Sec. 3.3	<b>21</b> Sec. 3.4	<b>22</b> Sec. 3.4	<b>23</b> <i>Quiz 2</i>
OCT	<b>26</b> Sec. 3.5	<b>27</b> Sec.3.6	<b>28</b> Sec .3.7	<b>29</b> Sec. 3.8	<b>30</b> Sec. 3.9
NOV	<b>2</b> Sec. 3.10	<b>3</b> Sec. 3.11	<b>4</b> <b>Review</b>	<b>5</b> <b>Test 2 (Ch 3)</b>	<b>6</b> Sec. 4.1
NOV	<b>9</b> <b>Veteran's Day</b>	<b>10</b> Sec. 4.1	<b>11</b> Sec. 4. 2	<b>12</b> Sec. 4.3	<b>13</b> <b>Last day to drop with "W"</b> Sec. 4.3
NOV	<b>16</b> <i>Quiz 3</i>	<b>17</b> Sec. 4.4	<b>18</b> Sec. 4.4	<b>19</b> Sec. 4.5	<b>20</b> Sec. 4.6 <b>Review</b>
NOV	<b>23</b> <b>Test 3 (Ch4)</b>	<b>24</b> Sec.4.7	<b>25</b> Sec. 4.8	<b>26</b> <b>Thanksgiving</b>	<b>27</b> <b>Holiday</b>
NOV / DEC	<b>30</b> <i>Quiz 4</i>	<b>1</b> Sec. 4.9 Sec. 10.1	<b>2</b> Sec. 10.1 Sec. 10.2	<b>3</b> Sec. 10.2 <b>Review</b>	<b>4</b> <b>Test 4 (Ch 4, 10)</b> <b>Review</b> <b>for FE</b>
DEC	<b>7</b>	<b>8</b>	<b>9</b> <b>Final Exam</b> <b>9:15-11:15am</b>	<b>10</b>	<b>11</b>