MATH41   *Precalculus I: Theory of Functions*   **Fall 2016**

MATH-41-08 Monday through Friday: 11:30am-12:20pm E31
INSTRUCTOR: Dr. Iaroslav Kryliouk   **OFFICE: S76C**
PHONE:(408)-864-8865   **E-MAIL:**krylioukiaroslav@fhda.edu
OFFICE HOURS: Daily, 9:45am-10:15am and Monday through Thursday 1:30pm-2:00pm
in S76C; or by an appointment.
Tutorial Center: S43
Course Description: This course in combination with MATH42 Trigonometry and
MATH43 will prepare students to take the calculus sequence. The course includes an in-
depth study of polynomial, rational, exponential and logarithmic functions, graphs, solving
equations.

Student Learning Outcomes for the course:
Outcome 1: Investigate, evaluate, and differentiate between algebraic and transcendental
functions in their graphic, formulaic, and tabular representations.
Outcome 2: Synthesize, model, and communicate real-life applications and phenomena using
algebraic and transcendental functions.

Text: *Precalculus with Limits*, by Ron Larson, 3rd edition, 2011, Brooks/Cole, Cengage
Learning

       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 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
students 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.

Pre-requisite: Mathematics 114 or equivalent (with a grade C or better); or a satisfactory
score on the College Level Math Placement Test within the last calendar year.

Quizzes: There will be 5 quizzes 20 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 is fair game on test day. Be advised that all in-class assesments are closed book and closed notes ones.

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

Test 1: T, Oct 11 (A2, A3, A5, A6, Sec 1.1, Sec 1.2, Sec 1.3)

Test 2: TH, Oct 27 (Sec. 1.4-Sec 1.10 (all))

Test 3: T, Nov 15 (Sec. 2.1-Sec. 2.7 (all))

Test 4: W, Nov 30 (Sec. 3.1-3.5 (all))

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 12, 11:30am-1:30pm 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 weekly due dates using Webassign. Homework will be graded in Webassign.

Mini-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>=723 (96.5%)=A+	X>=566 (75.5%)=C+
Test 1	100 pts	X>=697 (93%)=A	X>=525 (70%)=C
Test 2	100 pts	X>=671 (89.5%)=A-	X>=450 (60%)=D
Test 3	100 pts	X>=645 (86%)=B+	X<450(60%)=F
Test 4	100 pts	X>=618 (82.5%)=B	
Final Exam	200 pts	X>=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.
<div align="center">*** **NO OTHER MAKE-UPS WILL BE GIVEN***</div>

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 26-Fall quarter classes begin
Saturday, Oct 8-Last day to drop for a refund for out-of-state or foreign students (Drop date is enforced)
Saturday, Oct 9-Last day to add/drop for a refund or credit for residents. Add/drop date is enforced.
Sunday, Oct 9-Last day to drop a class with no record of grade (Drop date is enforced)
Tuesday, Oct 11-Test 1, (A2, A5, A6, 1.1, 1.2, 1.3)
Friday, Oct 16-Last day to request P/NP grade
Thursday, Oct 27 -Test 2, (1.4-1.10)
Friday, Nov 11-Veteran's Day
Tuesday, Nov 15-Test 3, (2.1-2.7)
Friday, Nov 18-Last day to drop with a "W" (withdraw date is enforced)
Thursday-Sunday, Nov 24-Nov 27-Thanksgiving Holiday Recess (college closed)
Wednesday, Nov 30-**Test 4,** (3.1-3.5)
Monday, Dec 12-Final exam 11:30am-1:30pm, 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

MATH41   DE ANZA COLLEGE   FALL QUARTER 2016

TENTATIVE CALENDAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Sep	**26** classes start Syllabus	**27** A2	**28** A5	**29** A6	**30** A6
Oct	**3** *Quiz 1*	**4** Sec. 1.1	**5** Sec. 1.2	**6** Sec. 1.3	**7** Sec. 1.3 **Sat, Oct 8: Last day to add** **Last day to drop for refund for credit** **Sunday, Oct 9: Last day to drop with no** **grade or record**
Oct	**10** **Review** **for Test 1**	**11** **Test 1** **(A2,5,6, 1.1** **1.2,1.3)**	**12** Sec. 1.4	**13** Sec. 1.4	**14** Sec. 1.5
Oct	**17** Sec. 1.6	**18** *Quiz 2*	**19** Sec. 1.7	**20** Sec. 1.8	**21** **Last day to request Pass/No Pass** Sec. 1.9
Oct	**24** Sec. 1.9	**25** Sec. 1.10	**26** **Review for** **Test 2**	**27** **Test 2** **(1.4-1.10)**	**28** Sec. 2.1
Oct / Nov	**31** Sec. 2.2	**1** Sec. 2.3	**2** Sec. 2.3/2.4	**3** Sec. 2.4	**4** *Quiz 3*
Nov	**7** Sec. 2.5	**8** Sec. 2.5	**9** Sec. 2.6	**10** Sec. 2.7	**11** **Veteran's Day**
Nov	**14** **Review** **for Test 3**	**15** **Test 3(2.1-2.7)**	**16** Sec. 3.1	**17** Sec. 3.2	**18** Last day to withdraw with "W" Sec. 3.3
Nov	**21** *Quiz 4*	**22** Sec. 3.4	**23** Sec 3.4/3.5	**24** **Thanksgiving**	**25** **Holiday**
Nov / Dec	**28** Sec. 3.5	**29** **Review for** **Test 4**	**30** **Test 4** **(3.1-3.5)**	**1** 10.2	**2** 10.3
Dec	**5** 10.3	**6** 10.4	**7** 10.4	**8** *Quiz 5*	**9** **Review** **for FE**
Dec	**12** Final Exam **11:30-1:30**	**13**	**14**	**15**	**16**