MATH-41.02
Winter 2016

Precalculus1- Theory and Functions

MATH-41.01 Monday through Friday:7:30 - 8:20am, room S46

INSTRUCTOR: Nina Danilova   OFFICE: Tutorial Center
E-MAIL:<danilovanina@deanza.edu>
OFFICE HOURS: 9:00am-9:30 M-Th. , Tutorial Center
Course Description: This course in combination withM42 and M43 (Trigonometry) will prepare students to take the calculus sequence. The course includes an in-depth study of functions; polynomial, rational, algebraic, piecewise, logarithmic, and exponential functions; their properties, graphs, and applications; conic sections; nonlinear inequalities.

Text: *Precalculus with Limits*, Third Edition ,by Larson
Older editions of Larson's previous precalculs books are different and are NOT appropriate for this class.

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 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.*
Pre-requisite: Math114 with grade C or better, or satisfactory score on Calculus Readiness Test within the last calendar year.
Class Rules: Cheating will not be tolerated. While being in class, you should turn off your cell phone or beeper. No walking in and out please. Don't hesitate to interrupt me – your questions are very welcome.
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.

Homework: You are responsible for all assigned **problems of the sections covered in class and all problems given in my handouts. You have to spend two hours of doing homework for each hour in class. I will spend several minutes in the beginning of each class meeting to answer your questions, if any, about homework problems.** The instructor will collect (and grade) HWs _on the three midterm exam days._ Usually, no late home assignments will be accepted.
You have to staple your homework. Each section should start from a new page. Put the number of each section and the numbers of problems assigned at the top of this page (it helps a lot in grading). Don't forget write your name on the first page.

Quizzes: There will be frequent quizzes usually not announced beforehand. **No make up quizzes!**

Midterms: Three one-hour examinations, each worth 100 points, will be given. Each midterm will be announced beforehand. **No make up examinations!** If you cannot take a midterm at the time assigned, you can take it earlier letting me know a couple of days earlier. The lowest midterm grade will be dropped.

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 7:00am-9:00 am.

FINAL takes place on Monday March 21 at 7:00 – 9:00am

Grade computation:

3 midterms	200	A	(89% and more, 534 points)
Final	200	B	(76% - 88.9%, 456 – 533)
Quizzes	70	C	(64% - 75.9%, 384 - 455)
Home assignments	60	D	(51 - 63.9%, 306 - 383)
Class activities	40	F	(<51%, < 306points)
Project	30		

TOTAL   **600**

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!

Important Dates January 17 : Last day to drop with full refund
                     January 18: Last day to drop with no record of grade
                     January 16: Last day to add class.
                     January 29 : Last day to request
                     Pass/NoPass grade
                     February26 : Last day to drop with
                     a"W".

MATH 41 Calendar: TENTATIVE SCHEDULE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Jan	4 1.1	5 1.1	6 1.2	7 1.3	8 *Last day to add/drop for a refund* **1.3Quiz1**
Jan	11 **1.4**	12 1.5	13 1.5	14 **1.6**	15 **1.6** **Quiz 2**
Jan	18 **Holiday**	19 1.7	20 **1.8,1.7**	21 1.9	23 **1.10** **Last day to drop with no record** **Review**
Jan	25 **1.10** *Review*	26 *TEST1*	27 **2.1**	28 2.2	29 2.3 **Last day to request Pass/No Pass grade**
Jan/ Feb	1 **2.3**	2 2.4	3 2.4	4 **2.5**	5 **2.5**
Feb	8 **2.6**	9 2.6	10 **2.7**	11 **App.6**	12 **Holiday**
Feb	15 **Holiday**	16	17 **Review**	18 **Exam2**	19 **3.1**
Feb	22 **3.1**	23	24 **3.3**	25 **3.3**	26 **3.4** **Last day to drop with a "W"**
Feb/ March	29 **3.5**	1 **3.5**	2 **Review** **Ch3**	3 **Review**	4 *Exam3*
March	7 **10.1**	8 **10.1/.2**	9 **10.2**	10 **10.3**	11 **10.3**
March	14 **10.4**	15 10.4	16 10.5 Quiz Ch 10	17 review	**18 Final** **Review**

March	21 Final Exam	9	10	11	12

(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")

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

Homework (TENTATIVE)

Section	Problems
1.1	##1,5,9,19,21,23,29,33,48,49,55,56.
1.2	##1,5,7,9,17,19,21,23,29,31,47,49,59,67,71.
1.3	Voc.,#9=15(odd),19,23,25,27,33,37,40,41,43,45,53,59,61,65,71,75,77,97,79,81,85,89,91,93,111,119,123.
1.4	Voc.,#7,13,17,18,35,39,41,51,57,63,67,77,79,89,93,97103,105
1.5	Voc.1,3,4,5,7,8;##9,11,13,15,19,23,25,31,49,52,59,61,66,75 77,81,83,117
1.6	Voc,.##11,19-41(odd),43,47,57,61,69,70
1.7	Voc.1-6(all);##7-9,11,15,17,19-23,25,29,35,47,52,51,55,59,63,65
1.8	##Voc.; 9,17 ,27, ,31-43(odd),49,57,73,75
1.9	Voc.1-6(all);##7-35(odd),43,49,53,73,101
1.10	Voc.;##11,13,19,21,23,77,35,45,49-57(odd),71,73,79
2.1	Voc.1-5;##7,9,11,17,21,23,27,31,39,41,43,47,51,59,63,

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71,73,76,79,85

2.2	Voc.,) ##17,23,37,41,45,59,63,71,75,79,83,84,97
2.3	Voc.1-5(all);##9,11,15,19,21,33,37,41,51,55,59,61,67,69,75
2.4	Voc1-4;9,11,21,27,31,35,37,43-47(odd),53-73(odd),79,85
2.5	Voc.(all);##9,10,13,15,19,22,27,30,33,37,45-55(odd),55,58,62,69,75,81,87,95,100,112,
2.6	Voc.1-4(all);##5-17odd,21,25,,29,33-49odd, 53,57,65,73,77,81
Appendix 6	Voc.1-6(all);##1-87 every other odd,95,11,113
2.7	Voc.1-3(all);##5-17 odd, 21,25,27,29,37,43,45,47,51,79
3.1	Voc.1-6(all);##13-16,17,23,25,29,31,37,43-75odd
3.2	Voc.1-5(all);##7-21odd,23,24,27,31,33-36,39,45-50,53,63,69,73-83odd, 85-92,93,98
3.3	Voc.1-5(all);##7,9,15,17,23-43 odd,67-83odd,8,87,90,95
3.4	Voc.1-3(all):##1-109 every other odd,116
3.5	Voc.1-5(all);#7-12,15--29odd,33-43odd,45,47,51,53,61,63,67,69,71,75
10.2	1-7(all);##5-9(odd),11,15,19,23,25,27,31-41(odd),61,62
10.3	Voc.1-4(all);##1-7(all),11,17,21,25,31,37,41,43,49,50,56,57,59,60,62
10.4	Voc.1-5(all);##1-4,5,7,11,19,21,23,30,34,38,43,45,47,53
10.5	##3,5,7,11,15,33,45