Math 43 De Anza College, Cupertino. Quarter- Fall 2015

Course: MATHD 043.27, Pre-calculus III, Advanced Topics. CRN # 21744 Units – 5.
Meetings: TTh, Time – 4:00 to 6:15 pm. Room – G 6
Prerequisite: Math 41 and Math 42 with C or better grade.
Textbook: Precalculus with limits, 2nd Edition by Larson.
Equipment: TI-83 plus/ TI 84 graphing calculator is required.
Instructor: H. K. SHAH. Email: shahhemendra@deanza.edu
WebAssign course name: Precalculus 3, Math 43, Fall 2015, De Anza College. **Class Key:** deanza 3708 3872
Office hours: TTh, 12:50 1:20 p.m. and 6:15 to 6:45 p.m. Room E 37.

Attendance: Students are expected to attend all class meetings without tardy. Student with three recorded absences will be dropped from the course. If student decides to drop the course, it is his/her responsibility to drop the course. There are 10 points for attendance, 5 points will be deducted for each absence. ***Disappearing from the class doesn't qualify for getting 'W' for the course, but will get "F" grade.***

Course Objectives:

Students' learning outcomes (SLOs): Outcome 1: Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects. **Outcome 2:** Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections. Hyperbolic equations. **Outcome 3:** Analyze, develop, and evaluate formulas for sequence and series; justify those formulas by mathematical induction.

I shall cover chapters 7 to 11 of the book. It covers (1) Matrices and determinants (2) Graph and analyze curves in polar coordinates and in parametric equations (3) Solve systems of inequalities and systems of non-linear equations (4) Perform operations with vectors in 2 and 3 dimensional space (5) Explore equations of lines and planes in 3-space, as well as the graphs of surfaces (6) Develop and use the formulas for arithmetic and geometric sequences and series (7) Write proofs using mathematical induction and develop the binomial theorem. (8) Study of Hyperbolic Functions. It is a very intensive course, requiring ten to fifteen hours of study time outside the class. We are going to use TI-83 graphing calculator intensively.

Homework: Students will do homework on internet using Enhanced WebAssign program at web address **www.webassign.net/cengage**. You need to get the access code when you purchase the book. WebAssign course name and class key information are written above. *Late homework will not be accepted for grading purpose.*

Examinations: There will be three midterm tests each of one hour, and four quizzes each of 20 minutes. **There will be no make-ups for missed tests/final or quizzes.** If only one test is missed due to unavoidable circumstance, and the instructor is notified in advance or quickly; the final exam score % will be used to replace missed test score. A comprehensive final examination of two hours will be given from 4:00 to 6:00 p.m. on Tuesday, December 8, 2015 in our classroom. Students absent in the final exam will get F grade. *All students need to save corrected returned papers of quizzes and midterm tests. I may need it in unusual situation.*

Disruptive behavior: De Anza College will enforce all policies and procedures set forth in the *Standards of Students Conduct* (refer catalogue). Any student disrupting a class may be asked to leave that class. Administrative follow-up may result.

Academic Integrity: It is assumed that all students will pursue their studies with integrity and honesty; however all students should know that incidents of academic dishonesty like cheating and plagiarism are taken very seriously. Students involved in cheating will be dropped and get F for the course. Further disciplinary action by administration will follow.

Grades:

Grade Scale		Points range	Percentage range
A+	4.0	476 to 500	95+ to 100 %
A	4.0	456 to 475	91+ to 95 %
A-	3.7	436 to 455	87+ to 91%
B+	*3.3*	*416 to 435*	*83+ to 87 %*
B	*3.0*	*396 to 415*	*79+ to 83 %*
B-	*2.7*	*376 to 395*	*75+ to 79 %*
C+	2.3	351 to 375	70+ to 75 %
C	2.0	326 to 350	65+ to 70 %
D+	*1.3*	*306 to 325*	*61+ to 65 %*
D	*1.0*	*296 to 305*	*59+ to 61 %*
D-	*0.7*	*276 to 295*	*55+ to 59 %*
F	*0.0*	*0 to 275*	*0 to 55 %*

Examinations	Points
Three Tests	3x70 = 210
Four Quizzes	4x20 = 80
Attendance	10
Homework	60
Final Exam	140
Total points	500

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Week # Month	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 September	21	22 7.1, 7.3	23	24 7.5, 8.1	25	26
2 October	28	29 Quiz–1, HW-1 8.2	30	Oct. 1 8.3,8.4	2	3 4th Oct. Last day to add/ drop with no grade record. Enforced.
3	5	6 8.5,10.2	7	8 Test -1, HW-2	9	10
4	12	13 10.3,10.4	14	15 Quiz-2, HW-3 10.6	16 Pass/no pass grade Request	17
5	19	20 10.7,10.8	21	22 10.9	23	24
6	26	27 Hyperbolic functions	28	29 Test-2, HW-4	30	31
7 November	Nov. 2	3 9.1, 9.2	4	5 9.3, 9.4	6	7
8	9 Veterans Day	10 Quiz-3, HW-5 9.5	11	12 6.3, 6.4	13 Last day to drop with 'W' Enforced.	14
9	16	17 Quiz-4, HW-6 11.1	18	19 11.2, 11.3	20	21
10	23	24 11.4	25	26 Thanksgivings	27	28
11 December	30	Dec. 1 Review Test-3, HW-7	2	3 Whole review	4	5
12	7	8 Final Examination 4:00 to 6:00 p.m.	9	10	11	12

HW/Quiz/Test # →	1	2	3	4	5	6	7
Homework assignment Sections/Chapters →	Chap. 7	Chap.8	10.1 to 10.4	10.6 to 10.9	9.1 to 9.4	9.5,6.3,6.4	11.1 to 11.4
Sections to be covered For QUIZ →	Chap. 7	10.1 to 10.4	9.1 to 9.4	9.5,6.3,6.4	--------	----------	-------- ----
Chapters/sections to be Covered for TEST →	Chapters 7, 8.	Chap. 10	Chapters 6,9,11	--------	--------	----------	-------- ----

Final exam is comprehensive exam covering whole syllabus.