**Math 43          De Anza College, Cupertino.          Quarter- Fall 2016**

Course:  MATHD 043.23, Pre-calculus III, Advanced Topics.  CRN # 20671          Units – 5.
Meetings:          MW, Time – 4:00 to 6:15 pm.          Room – MLC 113
Prerequisite:          Math 41 and Math 42 with C or better grade.
Textbook:          Precalculus with limits, 3rd 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 2016, De Anza College. Class Key: deanza 6167
Office hours: MW, 3:20 3:45 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 15 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 three quizzes each of 25 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. For students appearing for all exams, lowest test score will be replaced by % of final exam score, if final exam % is better compared to lowest scored test. A comprehensive final examination of two hours will be given from 4:00 to 6:00 p.m. on Wednesday, December 14, 2016 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 | Examinations | Points | |
| --- | --- | --- | --- | --- | --- | --- |
| A+ | 4.0 | 476 to 500 | 95+ to 100 % | Three Tests | 3x70 = | 210 |
| A | 4.0 | 456 to 475 | 91+ to 95 % | Three Quizzes | 3x25 = | 75 |
| A- | 3.7 | 436 to 455 | 87+ to 91% | Attendance | | 15 |
| B+ | 3.3 | 416 to 435 | 83+ to 87 % | Homework | | 60 |
| B | 3.0 | 396 to 415 | 79+ to 83 % | Final Exam | | 140 |
| B- | 2.7 | 376 to 395 | 75+ to 79 % | Total points | | 500 |
| 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 % | | | |

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**Instructor: H. K. SHAH  Time: MW, 4:00 to 6:15 p.m.**            **Room- MLC 113**
**Text: Pre-Calculus with limits, 3rd Edition by Larson.**
<u>**WebAssign course name:**</u> **Precalculus 3, Math 43, Fall 2016, De Anza College.** <u>**Class Key:**</u> **deanza 6167 0296**

| Week # Month | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| 1 September | 26 7.1, 7.3 | 27 | 28 7.5, 8.1 | 29 | 30 | Oct. 1 |
| 2 October | 3 Quiz–1, HW-1 8.2 | 4 | 5 8.3,8.4 | 6 | 7 | 8 9th Oct. Last day to add/ drop with no grade record. Enforced. |
| 3 | 10 8.4,8.5 | 11 | 12 Test -1, HW-2 | 13 | 14 | 15 |
| 4 | 17 10.6 | 18 | 19 10.7, 10.8 | 20 | 21 Pass/no pass grade Request | 22 |
| 5 | 24 10.9 | 25 | 26 Quiz-2, HW-3 Hyperbolic functions | 27 | 28 | 29 |
| 6 November | 31 Hyperbolic functions | Nov. 01 | 02 Hyperbolic functions | 03 | 04 | 05 |
| 7 November | Nov. 7 Test-2, HW-4 | 8 | 9 9.1, 9.2 | 10 | 11 Veterans Day | 12 |
| 8 | 14 9.3, 9.4 | 15 | 16 Quiz-3, HW-5 9.5 | 17 | 18 Last day to drop with 'W' Enforced. | 19 |
| 9 | 21 11.1,11.2 | 22 | 23 11.3 | 24 Thanksgivings | 25 Thanksgiving | 26 |
| 10 December | 28 11.4 | 29 | 30 Review Test-3, HW-6 | Dec. 01 | 02 | 03 |
| 11 | 5 Whole Review | 6 | 7 Whole Review | 8 Whole review | 9 | 10 |
| 12 | 12 Blank Day (no meeting) | 13 | 14 Final Examination 4:00 to 6:00 p.m. | 15 | 16 | 17 |

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

**Final exam is comprehensive exam covering whole syllabus.**