

**Course:** MATHD 043.26, Pre-calculus III, Advanced Topics. CRN # 40250-01 Units – 5.

**Meetings:** MW, Time – 4:00 to 6:15 pm. Room – DA- G 5

**Prerequisite:** Math 41 and Math 42 with C or better grade.

**Textbook:** Precalculus with limits, 3<sup>rd</sup> Edition by Larson.

**Equipment:** TI-83 plus/ TI 84 graphing calculator is required.

**Instructor:** H. K. SHAH. Email: shahhemendra@fhda.edu

**Office hours:** MW, 3:00 to 3:50 p.m. Room E 37.

**WebAssign course name:** Math 43.26, Precalculus 3, Math 43, Spring 2019, HKSHAH, De Anza College.

**Class Key:** deanza 2743 4169

**Attendance:** Students are needed 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.*

#### SPACE FOR SLO

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, needing 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](http://www.webassign.net/cengage). You need to get the access code when you buy 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 20-25 minutes. There will be no make-ups for missed tests/final or quizzes. If student missed only one test due to unavoidable circumstance, and I am notified in advance or quickly; the final exam score % will be used to replace score of missed test, given student passed in final exam (scored at least 85/130). Students who attended all 3 Tests, and passed in final exam (scored at least 85/130), then lowest scored test will be replaced by the % of final exam, if did better in final. A comprehensive final examination will be of two hours, during 4:00 to 6:00 p.m. on Wednesday, June 26, 2019 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. Cell phone is not allowed in all exams.*

**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 expected 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		Examination	points
A+ 4.0	476 to 500	95 + to 100 %		Three Tests	3x75 = 225
A 4.0	456 to 475	91 + to 95 %		Three Quizzes	3x25 = 75
A 3.7	436 to 455	87+ to 91 %		Homework	50
B+ 3.3	416 to 435	83+ to 87 %		Class attendance	10
B 3.0	396 to 415	79+ to 83 %		Final examination	140
B 2.7	376 to 395	75+ 79 %		Total points	500
C+ 2.3	351 to 375	70+ 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+ 59 %			
F 0.0	0 to 275	0 to 55 %			

Math 43

De Anza College, Cupertino.

Quarter- Spring 2019

Course: MATHD 043.26, Pre-Calculus III, Advanced Topics.

CRN Session- 40250-01

Units: 5

Instructor: H. K. SHAH Time: MW, 4:00 to 6:15 p.m.

Room- DA- G 5

Text: Pre-Calculus with limits, 3<sup>rd</sup> Edition by Larson.

WebAssign course name: Math 43.26. Precalculus 3, Math 43, Spring 2019, HKSHAH, De Anza College.

Class Key: deanza 2743 4169

Week # Month	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 April	8 7.1, 7.3	9	10 7.5, 8.1	11	12	13
2	15 Quiz-1, HW-1 8.2	16	17 8.3,8.4	18	19	20 Last day to add classes. Last day to drop.
3	22 8.4,8.5	23	24 Test -1, HW-2	25	26	27
4	29 10.6,10.7	30	May 1 10.8,10.9	2	3 Pass/no pass grade request	4
5 May	6 10.9. Quiz-2, HW-3	7	8 Hyperbolic functions	9	10	11
6	13 Hyperbolic functions	14	15 Test-2, HW-4	16	17	18
7	20 9.1, 9.2	21	22 9.3, 9.4	23	24	25
8	27 Memorial Day	28	29 9.4, 9.5	30	31 Last day to drop with 'W'. Enforced.	June 1
9 June	3 Quiz-3, HW-5 11.1	4	5 11.2, 11.3	6	7	8
10	10 11.4	11	12 Review Test-3, HW-6	13	14	15
11	17 Whole Review	18	19 Whole Review	20	21	22
12	24 Blank day.	25	26 Final Examination 4:00 to 6:00 p.m.	27	28	29

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 9.5	11.1 to 11.4
Sections to be covered For QUIZ →	Chap. 7	10.6 to 10.9	9.1 to 9.5	-----	-----	-----
Chapters/sections to be Covered for TEST →	Chapters 7, 8.	Chap. 10, Hyperbolic functions	Chapters 9,11	-----	-----	-----

Final exam is comprehensive, show your work type exam, covering whole syllabus. No multiple choice questions.



**Student Learning Outcome(s):**

\*Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects.

\*Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections.

\*Analyze, develop, and evaluate formulas for sequences and series; Justify those formulas by mathematical induction.