



# MATH 043 Pre-Calculus III

W16



**Prof.**

**G. V. KRESTAS**

Section: 23  
63

MW 1:30-3:45, MLC109  
TR 6:30-8:45, MLC108

Office :

S75c

Office Hour:

MW 12:30 - 1:20; TR 3:00 - 3:50

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## Student Learning Outcomes

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.

## Course Objectives

- A. Graph and analyze curves in polar coordinates
- B. Graph and analyze parametric equations.
- C. Explore matrices, matrix reduction and determinants in the context of solving systems of linear equations
- D. Solve systems of inequalities and systems of non-linear equations
- E. Perform operations with 3D vectors
- F. Explore equations of lines and planes in 3-space.
- G. Develop and use sequences and series
- H. Write proofs using mathematical induction
- I. Use the binomial theorem to calculate binomial coefficients and to expand binomial expressions
- J. Examine the logic of conditional and bi-conditional statements as they appear in mathematical statements
- K. Examine Hyperbolic functions, their graphs and verify and use common hyperbolic identities, and solve equations containing hyperbolic expressions

## Advisory

EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273



# MATH 043

## Pre-Calculus III

W16

### Course Structure

Five hours lecture (60 hours total per quarter). This is an intensive and fast moving course, requiring lot of study and practice for successful completion.

### Prerequisites

MATH 41 and MATH 42 (both with a grade of C or better); or a satisfactory score on Calculus Readiness Test within the last calendar year.

**Text :** *Precalculus with Limits, Larson 3<sup>rd</sup> Edition*  
*Student Access-Code to WebAssign.*

### Attendance

Mathematics is a very demanding subject. Consequently, **Regular and punctual attendance is expected.** Being late or leaving before the class is dismissed is rude and inconsiderate behavior for those present. Moreover, **it disrupts the learning process.** Therefore, late arriving students or those leaving the class at will may not be able to enter/re-enter until the break. They will be marked as absent and and/or will be penalized accordingly. The class-door will be locked, and it will not open until the break. Therefore:

1. Take care of your physical needs before entering the classroom.
2. If you cannot take the final on the date and time assigned by the college (see schedule of finals), do not take the class.
3. **Dropping the class is your responsibility.**
4. If you are expecting an "Emergency" call, or you are sleepy, or tired, please do us all a favor and stay home. The classroom is not a bedroom nor a telephone booth..

### Assignments/ Test / Quizzes

1. Must be of College Level quality. A sample will be shown in class..
2. Extensions will not be given, except for verifiable medical reasons.
3. Graded materials are NOT kept for late pick-up; they are left in the classroom.
4. Work that does not conform to the standards presented in class will be rejected. For example:
  - a. Messy or hard to read work.
  - b. Solution methods other than those presented in class.
  - c. If the scanner can not read your name.
  - d. Rejected work will receive 50% of the grade it is worth.
  - e. Writing outside the allotted space (margins and referrals to other parts of the paper).
  - f. Using a pen (ink) instead of a 2H pencil.
  - g. Graphs not accurately drawn or labeled including missing key-values and units.
  - h. Solutions not in a top-down fashion. The answer should be the very last statement.



# MATH 043

## Pre-Calculus III

W16

- i. Answer not BOXed.
- j. Using font size other than the equivalent of "Arial 12".
- k. Using paper other than 8.5"x11" #20 (printer paper).

### Academic Integrity

De Anza College is committed to the highest standards of academic integrity and honesty. Students are urged to familiarize themselves with the provisions of the Code of Student Conduct (CSC). Dishonesty is unacceptable and **will not be tolerated**. If you are found cheating, looking at others' exams, plagiarizing or in collusion in dishonest activities, you will receive an "F" for that particular work and you may be dropped and/or reported to the Dean of Students for farther disciplinary action. You are expected to abide with the ideals of academic integrity and accept personal responsibility for your work. During exams, protect your work. Any infringement will disqualify **both** parties.

### Classroom Decorum

**Learning is your responsibility.** However, engaging in behaviors that distract or interrupt the learning process or the instructor's ability to teach will NOT be tolerated. The following is a sample of such behaviors:

1. *Ringling phones*
2. *Entering or leaving the classroom at will*
3. *Continued, willful, open and persistent defiance of the authority of the instructor.*
4. *Inordinate demands for time and attention.*
5. *Talking, eating, drinking, pandiculating, or sleeping in class.*
6. **Cell Phones, earphones, Laptops, tablets e.t.c.**

There is no need for any of the above electronic instruments for the successful completion of this class, unless otherwise directed by the instructor or have documentation from the *Disability Resource Center* stipulating the use of a specific device. Consequently, all electronic instruments, especially cell phones, must be **turned off and out of sight during class**. Violators will be sanctioned, accordingly.

*Sanctions may vary from several points deduction to being asked to leave the classroom and/or being reported to the Dean of Students.*

Communications: [krestasgeorge@fhda.edu](mailto:krestasgeorge@fhda.edu)

1. I do not have a personal secretary. Therefore, it may take up to 48 hrs for a response.
2. Do not call or email me asking for my notes or if I said anything "important!" The answer to both is "NO".
3. Test/Quiz/Homework solutions will be shown in class.
4. I welcome suggestions about issues relating to the course.



# MATH 043 Pre-Calculus III

W16

5. For praise, derision or grumble see “Where to send ... mail” below.

## Contesting Grades

*DO NOT CONFUSE EFFORT WITH RESULTS.* Student earned points are NOT subject to negotiation. Additional credit will only be given in those cases where there is evidence of oversight. Explaining what you did wrong does not constitute oversight on my part. Here is how:

1. Submit a word processed explanation (oral or emailed explanations will not be considered) with the appropriate Heading.
2. Staple it in the front of the graded item in question no later than the class session immediately following the one where the work was returned to you.
3. Contesting requests past **the one session** deadline will not be accepted.
4. Presenting other student’s work, seemingly the same as yours, for which the other student received more credit than you did, will result in lowering the other student’s score to match yours.
5. No contests will be accepted at the last day of classes or afterwards.

## Assessment Method

Weekly homework, maximum three tests, several unannounced quizzes given at any time during the class period, and a comprehensive final given at the time and day assigned by the College (see schedule of finals at see: <http://deanza.fhda.edu>).

Homework .....	= <b>10 points</b>
Tests .....	= <b>30 points</b>
Quizzes .....	= <b>25 points</b>
Final Exam .....	= <b>35 points</b>
* Instructor's personal evaluation of overall student performance and participation .....	= <b>5 points</b>

90 points <	A-, A, A+ <	100 points
80 points <	B-, B, B+ <	89 points
70 points <	C-, C, C+ <	79 points
60 points <	D-, D, D+ <	69 points
0 points <	F <	59 points

*Note: The instructor reserves the right to make minor adjustments to the scale.  
\* Bonus points are totally on the discretion of the instructor.  
The instructor cannot guarantee a certain grade to anyone.*



# MATH 043

## Pre-Calculus III

W16

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### Materials

1. Four sheets of SCANTRON 2052 in mint condition.
2. Pencil #2, eraser, ruler, and a batch of #20 lb white paper (printer paper).
3. A TI graphing calculator (TI 83 Plus, 84, or 84 Plus) to use during tests and quizzes. You may not use a calculator that does symbolic logic on quizzes or exams (TI 89). If you do not have a TI 83 Plus, 84, or 84 Plus, your calculator must be approved by me. You may borrow a calculator, for a limited time, from the Library.
  - a. Using your **phone, computer, or tablet as calculator is not allowed.**
  - b. Borrowing calculators, erasers, etc. from other students during tests/Quizzes is not allowed.

### Sanctions

Sanctions may vary from an oral reprimand to a ten-point deduction or being asked to change seats, leave the classroom, see the PSME Dean before being allowed to re-enter the classroom, dropped, and/or being reported to the Dean of Students for farther College-level disciplinary action

(Absence: -2 pts., Phones in sight: -5, Ringing Phones: -5 pts., earphones: -5 pts).

### Student Services

Click on the link <http://www.deanza.edu/student-services/> for information about financial aid, childcare, counseling, academic support, disability support, student activities and other services provided by the college.

**Note: Those needing accommodations based on the impact of a disability must contact the Disabled Students Services directly.**

### Office Hours

Office hour is intended for students to have a private discussion about their grades or for **specific question(s)** about homework or the lecture—*after* the student has attempted to solve the problem himself and has visited the Tutoring Center for assistance. Office hours are **not** intended as a private tutorial session or for working out assigned or not assigned homework problems.

### Restrictions

Due to the critical importance of the *Copyright* © of materials used and/or presented in class, you may not tape, photograph, or electronically record all or part of the lecture, tests, or quizzes. Violators will be sanctioned and /or may be dropped. And they will be held responsible for any copyright infringement caused by their failure to comply with this restriction.



# MATH 043 Pre-Calculus III

W16

## Roster

The Roster will be posted approximately every two weeks. If there is a discrepancy in your score, then you should follow the same process outlined in the "CONTESTING YOUR GRADES." No error will be recognized after one week of the posting of the Roster or after the last day of classes.

## Tutoring

The Student Success Center (S46) offers group and individual tutoring free of charge. If you need assistance, do not wait, sign up immediately.

## Where to send Fan / Hate Mail:

See appropriate tab in my website: [profgvk.weebly.com](http://profgvk.weebly.com)

## In Conclusion

Despite the length and language of my greensheet, I am actually very supportive of students who are serious about their education. However, if you are rude or not interested you might find me obnoxious and overbearing.



Read all about it in my website [profgvk.weebly.com](http://profgvk.weebly.com) /My beloved Frixos.



# MATH 043

## Pre-Calculus III

W16



### CALENDAR :

Week	Chapter Section	Homework	Homework Due Date 12:00 noon.
1	Course Intro.		
	7.1	8,48,68	9/28
	7.3	8,24,50	
7.5	40,60,82		
2	8.1	30,40,92	10/5
	8.2	20,36,62	
	8.3,	38,44,74	
3	8.4	44,52,68	10/12
	8.5	16,38,62	
4	<b>Test #1</b>		10/19
	9.1	32,82,96	
5	9.2	64,92,96	10/26
	9.3	56,68,118	
	9.4	22,58,79	
6	9.5	40,60,92	11/2
	<b>Test#2</b>		
7	11.1	20,50, 62,78	11/9
	11.2	38,54,60,64	
8	11.3	36,54,58,62	11/16
	11.4	26,40,50,62	
9	<b>Test#3</b>		11/23
	10.6	22,28,52	
10	10.7	18,40, 106	11/30
	10.8	60,66, 78	
	10.9	54,59,65	
11	Hyperbolic Functions		12/7
12	<b>Review</b> <b>Final: see Finals Schedule at Deanza.edu</b>		

Note<sup>1</sup>: Although I only assign a few problems per week, I strongly recommend that you do at least ten problems from the end of each section.

Note<sup>2</sup>: Grading will be based on neatness and organization, as well as, on correctness

Note<sup>3</sup>: The Final will be given at the time and date defined by the College. See finals exam schedule at the De Anza website. Missing the Final will result in an "F" grade for the class.

Note<sup>4</sup>: The instructor reserves the right to revise the calendar as needed to cover the material.

