



MATH 043.07 Pre-Calculus III

U16



Prof. G. V. KRESTAS

Class: MTWTh 3:00 – 5:15, E33
Office : S75c
Office Hour: By appointment.

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Student Learning Outcomes

1. Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects
2. Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections.
3. Analyze, develop, and evaluate formulas for sequences and series; Justify those formulas by mathematical induction

Course Structure: Five hours lecture (60 hours total per quarter). This is an intensive and fast moving course, requiring lot of 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 3rd Edition*

Attendance: **You must come to class prepared and on time!** Regular and punctual attendance is expected. Therefore, late arriving students or those leaving the class at will may not be able to enter/re-enter until the break—the door will be locked. In addition, they will incur a two-point deduction. Therefore, take care of your physical needs before entering the classroom.

The date and time for the Final is assigned by the College (see schedule of Finals in the De Anza website). If you cannot make it that date, then drop the class. Otherwise an “F” grade will be assigned to you for the course.

Dropping the course, if you so desire, is your responsibility.

Classroom Decorum: **Learning is your responsibility.** However, engaging in behaviors that distract or interrupt the instructor's ability to teach or the other students from learning will not be tolerated (see De Anza's *Code of Student Conduct*). Penalties may vary from a 5-point deduction to



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being asked to leave the classroom, being dropped and/or being reported to the Dean of Students for further action.

The following is a partial list of unacceptable behaviors: *Ringing phones, continued, willful, open and persistent defiance of the authority of the instructor, inordinate demands for time and attention, talking, eating, drinking, pandiculating, yawning loudly or sleeping in class.*

Entertainment Equipment: There is no need for **cell phones, earphones, laptops, tablets e.t.c.** 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, ear plugs, and, especially, **cell phones**, must be **turned off and out of sight during class**. Violators will be sanctioned, accordingly. Cell phones are not allowed as calculators during examinations. You may borrow a calculator, for a limited time, from the Library. Borrowing calculators, erasers, etc. from other students during examinations is a distraction and, therefore, is not allowed.

Method of Instruction: Lecture and visual aids, discussion of assigned reading, quiz and examination review, small group exercises. In addition, a large portion of the class time will be dedicated to presenting complete and detailed solutions of approximately 400 problems. You are expected to participate in all class activities and be ready to answer questions. Therefore, you must bring the book to class, as I will refer to it frequently.

Assignments/Tests: There are no makeup's of any kind; one homework and one quiz will be dropped. If you miss one test, a prorated grade based on your final will be assigned to it provided you have a verifiable medical excuse.

If you need to leave the room during an exam (quiz/test/final), your paper is turned in and you are done. At the end of the exam, you will have ten seconds to turn in your paper. If it is turned in late, a late penalty (-3 point) will be assessed. It is not fair for you to continue working while others are turning in their work.

All work on homework, quizzes and exams must be neat, complete, and logically presented. Where work is required, partial credit will be given provided the work justifies such credit. A correct answer by itself will not earn full credit (except on a multiple choice question). Points will be assessed / deducted not only for the correctness, but also for the elegance and the presentation of the solution. **PRESENTATION IN MATH IS AS IMPORTANT AS ACCURACY.** Therefore, College Level quality of work is expected. Messy work (Homework, Tests, Quizzes, final, etc.) will not be graded. Solution methods other than those presented in class are not acceptable.

Seating Etiquette: Remove hat, beanie, or sunglasses (except for medical reasons). Sit up straight, Face toward the board, Do not use the other desk as leg or arm rest, and NO eating or drinking (mandated by the College).



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The Heading: All types of work are scanned. Therefore, it is imperative that you follow the standard heading shown in class, to the letter. If the machine cannot read your name, your work will not be graded. You will have to come to my office so I can manually enter your grade. The penalty is two points for the first time, four for the second, etc. Type/Print your name, upper case letters, using a **2H** pencil (no ink). A sample will be shown in class. It is also in my website.

Work Presentation: All written work must follow the following standards:

- a. Use new 20 lb printer-paper and write/type the solution on one side only.
- b. If your answer is text only, your paper must be word-processed. Otherwise use a **2H** pencil.
- c. Erase; do not cross out, if corrections are needed.
- d. If you word-process your paper/report and you have equations in your text, use an equation editor. Do not use non-standard notation for exponents or other mathematical symbols.
- e. If you do not have an equation editor write equations clearly by hand.
- f. Use a **2H** pencil so you can easily erase if corrections are needed.
- g. For graphs: label the axes appropriately including key-values and units.
- h. Start each problem/question at the top of a new page.
- i. Present the solution in a top-down fashion. (the answer should be the very last statement)
- j. Box the final answer(s).
- k. Write/type using the equivalent of font: **Arial 12** (this is font Arial 12).
- l. Use one inch margins on both sides (Work on the margins will not be considered).
- m. Round answers to two decimal places. If the number is less than one, place a zero before the period (ex. 0.34)
- n. Staple all sheets together in ascending order of the problems and do not fold.
- o. No work will be accepted on the day of the final.
- p. I do not keep unclaimed returned work. It stays in the classroom.

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 further 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 penalize **both** parties.

Communications: You can email me at krestasgeorge@fhda.edu. However, due to lack of personal secretarial support, it may take up to 48 hrs for a response. Do not call or email me asking for my notes or if I said anything "important!" The answer to both is "NO". Exchange phone numbers/emails with one or more classmates for that information. However, I welcome suggestions about issues relating to the course. For praise, derision or grumble see "Where to send *Fan/Hate* mail" below.



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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 the part of the grader. To contest a grade:

1. Submit a word processed explanation (oral or emailed explanations will not be considered).
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 honored.
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 grade to match yours.
5. No contests will be accepted at the last day of classes.

Assessment Method: Homework, max three midterm , several unannounced quizzes given at any time during the class period, plus a comprehensive final given at the time and day assigned by the College (see schedule of finals at <http://deanza.fhda.edu>).

1. The examinations may contain T/F, M/C, and fill-in quations in addition or in lieu of solving problems. Therefore, have a SCANTRON 2052 on test days.
2. All examinations are closed book and notes, except for an 8.5" x 11" sheet (both sides).
3. If you leave the classroom during a test you will receive a zero (0) for it.
4. I keep finals for 21 days. Please make an appointment if you wish to review it.
5. If you miss the final you will get an "F" in the course.

Scale

| | |
|---|---------------|
| Homework | = 10 points |
| Test(s)..... | = 30 points |
| Quizzes | = 25 points |
| Final Exam | = 35 points |
| Bonus points (instructor's prerogative) | = 5 points |
| Penalties | = 1-10 points |

| | | |
|-------------|-------------|------------|
| 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 and penalty points are totally on the discretion of the instructor.
The instructor cannot guarantee a certain grade to anyone.*



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Materials: Four sheets of SCANTRON 2052, calculator, pencil #2, eraser, ruler.

Sanctions: Sanctions may vary from an oral reprimand to a 1-10 point deduction and/or being asked to change seats, leave the classroom, see the PSME Dean before being allowed to re-enter the classroom, dropped, or reported to the Dean of Students for further disciplinary action.

Student Services: Click on the link <http://www.deanza.edu/studentservices/> 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: There is no Office Hour during the summer session. Office hours are intended for students to have a private discussion about their grades or for clarification on a *specific question* about a homework, or lecture-problem, *after* the student has attempted to solve the problem himself. 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 legally responsible for any copyright infringement caused by their failure to comply with this restriction.

Roster: The roster will be circulated 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 from the day of the posting 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 Mail: krestasgeorge@fhda.edu

Where to send Hate Mail: <http://underachieversrevenge.com>

In Conclusion: I am supportive of students who are serious about their education. The others may find me rather obnoxious and overbearing.

Calendar: Below is a tentative schedule of homework due and chapters to be covered. The instructor reserves the right to adjust the schedule as needed for timely coverage of the course material.



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| Week | Chapter Section | Contents | Homework |
|------|--|--|-----------------------------|
| 1 | Course Intro. 7.1 7.3 7.5 | System of equations | To be announced In class |
| | 8.1 8.2 8.3, | Matrices & Determinants | ↓ |
| 2 | 8.4 8.5 | ↓ | ↓ |
| | 8.5 | ↓ | ↓ |
| 3 | 9.1 9.2 9.3 | Sequences & Series | ↓ |
| | 9.4 9.5 | ↓ | ↓ |
| 4 | Test#1 6.1-6.4 | Review 2-D Vectors↓ | ↓ |
| | 11.1 11.2 | 3-D Vectors | ↓ |
| 5 | 11.3 11.4 | ↓ | ↓ |
| | 10.6 | Parametric Equations | ↓ |
| 6 | 10.7 10.8 10.9 Hyperbolic Functions | Polar Equations of Conics Hyperbolic Functions | ↓ |
| | Review Final: see Finals Schedule at Deanza.edu | | |

