



Math 43.61 – Prealculus III: Advanced Topics
Spring 2019
Meets: MW, 6:30 PM to 8:45 PM
Room: G7

Instructor: Lilit Mazmanyanyan	Office: Baldwin Winery 12
Contact: mazmanyanyanlilit@fhda.edu	Office hours: Monday and Wednesday 5:45 PM to 6:15 PM

Course Description

Hyperbolic functions, parametric equations, systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates, mathematical induction, and the binomial theorem.

Prerequisites

- MATH 41 (or MATH 41H) and MATH 42 (or MATH 42H) (both with a grade of C or better); or a satisfactory score on Calculus Readiness Test within the last calendar year.
- Not open to students with credit in MATH 43H.
- Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Textbook

Precalculus with Limits by Ron Larson, third edition.

Calculators

- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is required.
- Any calculators that can do symbolic mathematics are not allowed on exams and quizzes, for example TI-89 or HP-49.
- It is the student's responsibility to obtain a calculator to use if his/her calculator is lost or broken. Library Reserve has calculators for limited loans. The instructor can NOT lend her calculator.
- Cell phones or other devices CANNOT be used in place of a permitted calculator on any quiz or examination.

Homework (HW)	<ul style="list-style-type: none"> • Homework is done online using WebAssign • Students need to self-register at http://www.webassign.net to use WebAssign software • CLASS KEY to register on WebAssign WILL BE SENT TO STUDENTS BY EMAIL • The due date for each assignment can be found on WebAssign • After the due date/time, HW cannot be submitted for credit • After the due date/time, the answer key is available online • The lowest hw score will be dropped
Quizzes (Q)	<ul style="list-style-type: none"> • Quiz is closed book • It is based on classwork and homework • One page of notes, HANDWRITTEN, (one side 8.5 x 11-inch) is allowed • NO MAKE-UP QUIZZES are given • Missed quiz is graded as a zero (0) • The lowest quiz score will be dropped
Exams & Final Exam	<p>There will be four (4) examinations</p> <ul style="list-style-type: none"> • EX 1,2&3 are one hour each and Final exam is two hours

<p>(EX,FE)</p>	<ul style="list-style-type: none"> • EX 1,2&3 and the FE dates are on the course schedule • Exams are closed book • Bring graphing calculator, spare batteries, pencils, ruler, sharpener, and eraser • You need scantron and #2 pencil for the Final Exam; Scantron (Green), Form #882-E • No cellphones or other technologies are allowed during the Exams except graphing calculator • One sheet of notes (double-sided 8.5 x 11-inch), HANDWRITTEN, is allowed for the Exams 1,2&3 • Two sheets of notes (double-sided 8.5 x 11-inch), HANDWRITTEN, are allowed for the Final Exam • There are NO MAKE-UP examinations • An absence from any examination earns a grade of zero (0) • The lowest score of exams 1,2&3 will be replaced by a percentage on the final exam if the latter is higher. • You MUST take the final exam to pass the course 																																												
<p>Grading</p>	<p>Students will be graded on homework (HW), quizzes (Q), and exams (EX1,2&3, FE). Grading depends on the clarity of work, interpretations, accuracy and completeness of graphs, and explanations as well as numerical answers.</p> <p>Distribution of weights for each category</p> <table border="1" data-bbox="427 919 1143 1167"> <thead> <tr> <th>Category</th> <th>% Weight on Final Grade</th> </tr> </thead> <tbody> <tr> <td>Homework</td> <td>20 %</td> </tr> <tr> <td>Quizzes</td> <td>15 %</td> </tr> <tr> <td>Exam 1</td> <td>15 %</td> </tr> <tr> <td>Exam 2</td> <td>15 %</td> </tr> <tr> <td>Exam 3</td> <td>15 %</td> </tr> <tr> <td>Final Exam</td> <td>20 %</td> </tr> </tbody> </table> <p>Grading Scale</p> <table border="1" data-bbox="427 1234 953 1409"> <tbody> <tr> <td>A+</td> <td>≥99</td> <td>A</td> <td>94-98</td> <td>A-</td> <td>90-93</td> </tr> <tr> <td>B+</td> <td>86-89</td> <td>B</td> <td>82-85</td> <td>B-</td> <td>78-81</td> </tr> <tr> <td>C+</td> <td>74-77</td> <td>C</td> <td>70-73</td> <td></td> <td></td> </tr> <tr> <td>D+</td> <td>64-69</td> <td>D</td> <td>58-63</td> <td>D-</td> <td>50-57</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td><50</td> </tr> </tbody> </table> <p>Extra Credit During the course you will have opportunities for extra credits. There will be extra problems included in the coursework and on exams.</p>	Category	% Weight on Final Grade	Homework	20 %	Quizzes	15 %	Exam 1	15 %	Exam 2	15 %	Exam 3	15 %	Final Exam	20 %	A+	≥99	A	94-98	A-	90-93	B+	86-89	B	82-85	B-	78-81	C+	74-77	C	70-73			D+	64-69	D	58-63	D-	50-57					F	<50
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Important Dates and Deadlines

<https://www.deanza.edu/calendar/>

Monday	April 8	First day of Spring Quarter 2019.
Saturday	April 20	Last day to add classes.
Sunday	April 21	Last day to drop classes with no record of "W"
Monday	May 27	Memorial Day Weekend - Campus Closed
Friday	May 31	Last day to drop classes with a "W"
Wednesday	June 26	Final examination https://www.deanza.edu/calendar/finalexams.html

Attendance, Drops or Withdrawals

- Regular attendance is essential for success in the course.
- You must not miss a class in the first week of the quarter or you will be dropped.
- A student who discontinues coming to class and does not drop the course will automatically receive an 'F' grade for the course.
- It is the student's responsibility to drop or withdraw from this course by the college deadlines.

Academic Honesty and Discipline Policy:

Students are expected to abide by the DeAnza College Code of Conduct and not participate in academic dishonesty.

Academic dishonesty includes:

- Copying from other students (plagiarism)
- Using notes during a quiz or examination that do not meet permitted specifications
- Continuing to write or erase on a quiz or examination after the permitted time has ended
- Using any electronic device other than the approved TI calculator on a quiz or examination
- Sharing a calculator with another student for a quiz or examination

You can find more information on academic integrity at https://www.deanza.edu/policies/academic_integrity.html

Disruptive Behavior:

The use of cell phones and other noise emitting devices is disruptive. Students must keep their cell phones and other noise making devices in the off-mode, and keep them off the desk and out-of-sight.

Disruptive behavior includes:

- Engaging in an activity not related to the classroom activity
- Eating or drinking during class
- Monopolizing discussion time
- Late arrivals or early departure

Tutoring

The Math, Science and Technology Resource Center (MSTRC) is located in S43 on the De Anza Campus, (408) 864-5422. Hours of operation: Monday - Thursday 9:00 am - 5:30 pm, Friday 9:00 am - 12:00 pm. The MSTRC provides free tutoring services such as drop-in tutoring, weekly individual tutoring, and group tutoring.

Student Success Center: <http://deanza.edu/studentssuccess/mstrc/>

Students with Disabilities

Students with disabilities who qualify for academic accommodations must provide a notification from the Disability Support Services (DSS) and discuss their specific needs with the instructor at the beginning of the quarter.

For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) please contact Disability Support Services (DSS). DSS is located in Registration and Student Services Building, RSS Room 141. Phone number is (408) 864-8753; TTY (408) 864-8753. Email is dss@fhda.edu.

Disability Support Services: <https://www.deanza.edu/dss/>

Tentative Schedule

	Monday	Wednesday
Week 1	April 8 Syllabus/Ch. Sections 7.1 & 7.3 Systems of Equations and Inequalities	April 10 Ch. Sections 7.5 & 7.6 Systems of Equations and Inequalities Quiz 1
Week 2	April 15 Ch. Sections 8.1 & 8.2 Matrices and Determinants	April 17 Ch. Section 8.3 Matrices and Determinants Quiz 2
Week 3	April 22 Ch. Section 8.4 Matrices and Determinants	April 24 Ch. Section 8.5 Matrices and Determinants Quiz 3
Week 4	April 29 Ch. Section 9.1, Review Problems Sequences, Series, and Probability	May 1 Ch. Section 9.2 Sequences, Series, and Probability Exam 1 (one hour): Chapters 7-8
Week 5	May 6 Ch. Section 9.3 Sequences, Series, and Probability	May 8 Ch. Sections 9.4 & 9.5 Sequences, Series, and Probability Quiz 4
Week 6	May 13 Ch. Sections 10.5 & 10.6 Topics in Analytic Geometry	May 15 Ch. Sections 10.7 & 10.8 Topics in Analytic Geometry Quiz 5
Week 7	May 20 Ch. Section 10.9, Review Problems Topics in Analytic Geometry	May 22 Ch. Section 11.1 Analytic Geometry in Three Dimensions Exam 2 (one hour): Chapters 9-10
Week 8	May 27 Memorial Day Weekend No class	May 29 Ch. Section 11.2 Analytic Geometry in Three Dimensions Quiz 6
Week 9	June 3 Ch. Section 11.3 Analytic Geometry in Three Dimensions	June 5 Ch. Section 11.4 Analytic Geometry in Three Dimensions Quiz 7
Week 10	June 10 Hyperbolic Functions	June 12 Review Problems Exam 3 (one hour): Chapter 11
Week 11	June 17 Review Problems	June 19 Review Problems Quiz 8
Week 12		June 26 Final Exam (two hours): Chapters 7-11 6:15-8:15 PM

- Any change in schedule is announced during class. Students are responsible for keeping track of schedule changes.
- Final Exam date/time is the college mandated official final exam date/time.
- The due dates for HW assignments can be found on WebAssign.

Course materials (syllabus, lecture presentations, quiz/exam answer keys and additional resources) are uploaded onto *Canvas*. It is accessible to you via MyPortal as you are enrolled in the course. You

can also access into Canvas using direct link (<https://deanza.instructure.com>) with your MyPortal login credentials.

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.