

De Anza College Math 41.25 Fall '17

Instructor Information

Name: Salvador Guerrero **E-mail:** guerrerosalvador@fhda.edu

Office Hours: Monday/Wednesday 3:15 – 3:55 pm in E37; 8:45 – 9:10 pm in E36

Course Information

Title: Pre-Calculus I: Theory of Functions

Location and Time: E32 on Monday/Wednesday 4:00-6:15pm

Website: we will be using Canvas (deanza.instructure.com)

Materials:

Text (required): Precalculus with Limits, 3rd edition by Larson (2nd edition okay) (1, 2, 3, 10, Appendix A)

Text (optional): [OpenStax Precalculus](#) (1, 2, 3, 4, 10) or Precalculus: An Investigation of Functions, 2nd edition by Lippman and Rasmussen (1, 2, 3, 4, 9); and Precalculus by Stitz and Zeager (4.3) [these resources are open resources available for free, links in Canvas]

Technology (optional): Graphing calculator (TI-84 recommended) or computer based graphing utility.

Note: Technology will not be allowed on any quizzes or exams, it is only recommended for further understanding while completing homework and investigating course material.

Other: Pencil, eraser, and spiral notebook.

Note: Exams and quizzes must be completed using pencil.

Requisites:

Prerequisite: Mathematics 114 or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Hours: Five hours lecture (60 hours total per quarter).

Note: it is advised that you set aside two hours of study time per hour spent in class.

Description: This course will provide an in-depth look at polynomial, rational, exponential and logarithmic functions, graphs, solving equations, and conic sections.

Student Learning Outcomes:

1. Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.
2. Synthesize, model, and communicate real-life applications and phenomena using algebraic and transcendental functions.

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Assignments:

- In order to better understand your mathematical goals and to help guide you there, I will be **meeting** with each of you three times throughout the quarter to discuss your goals and progress. Once during the first week, again weeks 4-6 and then weeks 8-10. There will be class time set aside for these meetings and you will be asked to sign up for meeting times in Canvas.
- There are a number of benefits to **reading** the text before class – classroom discussion becomes more conversational, you necessarily see the material multiple times, and you have time to formulate questions. You are welcome read from any of the sources listed; reading will be assigned as topics and concepts, and the relevant sections of each textbook listed. I encourage you to read the text that best fits your learning needs, making sure to take notes as you do. Immediately, or soon, after reading you should check your understanding by completing a number of exercises from the text that you are using. This work should go into your composition book or notebook.
- Another important part of learning mathematics is to work through some exercises. **Homework** will be assigned on a weekly basis and we will take time in class to work through some of the examples together. This work should go into your composition book or notebook.
- There will be seven 20-30 minute in-class **quizzes** with questions directly from the homework. Your lowest two quiz scores will be omitted.
- There will be three midterm **exams**.
- There will be one required **project** to further develop your understanding of the course material.
- A two hour comprehensive **final exam** will be administered on Wednesday December 13, 2017 from 4:00 – 6:00 pm. The final is mandatory and must be taken at the scheduled time. Any student not taking the final will receive a grade of F.

Grading:

- **Meeting with Salvador** 3 times is graded on attendance.
- **Reading** will not be graded but your composition book is a good way to show that you have taken the time to deeply understand the material (see “Contract Grading”).
- **Homework** may be collected from time to time but feedback will usually be provided as you work on the worksheets during classwork time. You are expected to work through the problems in order to learn and are encouraged to ask about homework exercises during class and office hours.
- **Quizzes** and **Exams** will be graded mostly as correct or incorrect and feedback provided. Exams and quizzes may be revised and resubmitted for additional credit (up to 80% of missed points.)
- **Projects** will be graded as No Credit, Unsatisfactory, Marginal (Needs Improvement), Satisfactory (Meets Standards), Good (Exceeds Standards), or Excellent (Far Exceeds Standards). A more specific rubric will be provided with each project. Late projects will not be accepted.
- **Final Exam** will be graded with much consideration to partial credit since there is no possibility to re-work any mistakes. Your lowest midterm or project score (only one score) will be replaced by the final exam score if it benefits your grade.
- **Course Grades** will be determined by a “Grading Contract” (see canvas) or “Standard Grading.”

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Standard Grading:

Assignment weight:

Meet with Salvador	5%
Quizzes	15%
Project	15%
Midterm exams	45%
Final Exam	20%

Grading Scale:

If your overall grade is at least ____, then your letter grade is at least ____.

98%: A+	92%: A	90%: A-
88%: B+	82%: B	80%: B-
78%: C+	70%: C	60%: D

A student earning less than 60% will receive a grade of F.

Note: there is typically a curve applied before computing final grade.

(Tentative) Schedule:

Week	1	2	3	4	5	6	7	8	9	10	11	12
Mon					Quiz3	Quiz4	Exam2	Quiz5	Quiz6	Exam3	Quiz7	X
Wed		Quiz1	Quiz2	Exam1								Final

Note: the schedule is subject to change – any changes will be announced in class and noted in the course calendar.

Policies and Resources

Academic Integrity: Cheating, plagiarism and other forms of academic dishonesty will not be tolerated. Students are expected to be honest and ethical at all times in their pursuit of academic goals. A Student caught cheating, plagiarizing, or otherwise violating the rules for an assignment will receive a grade of 0 on the assignment in question; repeat offenders will receive a grade of F in the course. In either case, a student may be referred to the Dean for academic discipline. No grade of 0 due to academic dishonesty will be dropped or replaced.

Classroom Courtesy: Your interactions with the instructor as well as your fellow classmates should be courteous and respectful at all times. Every student is entitled to learn in an environment free of distractions or disruptions (including phones, headphones, etc.). Students who are disrespectful or disruptive can, and will, be asked to leave. If a student does not leave after being asked they will be dropped from the course and referred to the Dean. **Audio/Video recordings of lecture are prohibited.**

Attendance: Attendance is required and you are responsible for all material covered in class. I expect you to arrive to class on time and stay until class is dismissed. If you miss a class, contact a fellow student to find out what was covered. Also:

- Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade in this course.
- It is the student's responsibility to add, drop, or withdraw from classes before the deadlines stated in the college catalog. You should talk to me before withdrawing.
- Excessive absences may result in being dropped, at the discretion of the instructor.

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Tutoring/Additional Help: Please consider the following (free) resources for additional help:

- In Person Tutoring: <https://www.deanza.edu/studentssuccess/mstrc>
- On-line Tutoring: <http://deanza.edu/studentssuccess/onlinetutoring>
- The internet: it is the future (2016), a time when information is literally at our fingertips.

Accommodation of Disability: Students that have any disability, either permanent or temporary, which might affect their ability to perform in this class should contact me immediately. For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see the contacts below:

- Disability Support Services (DSS): <http://www.deanza.edu/dss>
- Educational Diagnostic Center (EDC): <http://www.deanza.edu/edc>
- HOPE De Anza: <http://www.deanza.edu/hope>

English as a Second Language: ESL students may use a translator and/or dictionary (print only, to be approved by instructor) during exams and quizzes. Please visit the college's Listening and Speaking Center (LSC) for additional resources <http://www.deanza.edu/studentssuccess/lsc/>