

# De Anza College Math 2B61 Fall '16

## Instructor Information

**Name:** Salvador Guerrero

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**Office Hours:** Monday 4 – 5 pm and Wednesday 5:15 – 6:15 pm in E37

## Course Information

**Title:** Linear Algebra

**Location and Time:** E36 on Monday/Wednesday 6:30-8:45pm

**Website:** TBA (I will send you an invitation via email, please make sure to accept it)

### Materials:

Text (required): A First Course in Linear Algebra, a free online text (<http://linear.ups.edu/html/fcla.html>)

Note: The book is also available for free download at <http://linear.ups.edu>, though some of the functionality of the online version is not possible, e.g. the SAGE program solutions to exercises.

Technology: Graphing calculator (TI-84 recommended) and computer/laptop with which to use SAGE (we will only use it occasionally, and the book links to it so no need to download just yet.)

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: MATH 1D with a grade of C or better.

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 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:** Linear algebra and selected topics of mathematical analysis.

### Student Learning Outcomes:

1. Construct and evaluate linear systems/models to solve application problems.
2. Solve problems by deciding upon and applying appropriate algorithms/concepts from linear algebra.
3. Apply theoretical principles of linear algebra to define properties of linear transformations, matrices and vector spaces.

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## Assignments:

- Reading is an important part of learning mathematics; you are expected to read the sections before they are covered in class. In order to check that you are doing this, there will be **Reading Quizzes** through our course site that will be due before lecture.
- Another important part of learning mathematics is to work through some exercises. **Homework** will be assigned from each section of the book covered (the problems will be posted to the course website).
- There will be nine 20-30 minute in-class **quizzes** with questions directly from the homework. Your lowest two quiz scores will be omitted.
- There will be two in-class one hour midterm **exams**. Your lower midterm score may be replaced by your final exam score, if it benefits your grade. (if you get the same score on both midterms only one of them will be replaced)
- There will be two required group **projects** to further develop your understanding of the course material. Some class time will be set aside for the introduction and completion of the projects.
- A two hour comprehensive **final exam** will be administered on Wednesday December 14, 2016 at 6:15-8:15pm. 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:

- **Reading Quizzes** will be submitted through Canvas as a pdf and will be graded by the instructor.
- **Homework** will neither be collected nor graded (if it seems that too many people are not doing homework this may change). You are expected to work through the problems in order to learn. You are encouraged to ask about homework questions during class and office hours.
- **Quizzes and Exams** will be graded as follows: each question will receive a score of 1 (for correct) or 0 (for incorrect) and I will provide feedback. Although there will be no partial credit, you will have the opportunity to re-work any problem not receiving a grade of 1 – details of this policy will be discussed in class on the first day of class. There will be no make-up exams or quizzes.
- **Projects** will be graded as No Credit, Unsatisfactory, Marginal (Needs Improvement), Proficient (Meets Standards), or Exemplary (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.
- **Course Grades** will be determined by a “Grading Contract” which we will talk about during the first meeting.

## (Tentative) Schedule:

Week	1	2	3	4	5	6	7	8	9	10	11	12
Mon					Proj1					Proj2		
Wed	Quiz1	Quiz2	Quiz3	Exam1	Quiz4	Quiz5	Quiz6	Exam2	Quiz7	Quiz8	Quiz9	Final

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

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## 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.

**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/>