

Syllabus for MATH 117

Advanced Linear Algebra

Term:	Summer 2019	Instructor:	Suzana Milea
Time:	TuWTh 02:00PM-04:30PM	Office:	McHenry 4117
Room:	PhysSciences 136	Email:	smilea@ucsc.edu

Office Hours: W 5:00PM-6:00PM in McHenry 2359 and Th 12:30PM-1:30PM in McHenry 2316.

Discussion Section: M 02:00PM-03:00PM in Soc Sci 1 145.

Teaching Assistant: Xu Gao.

TA's Email: xgao26@ucsc.edu

TA's Office Hours: M 3:30PM-5:30PM in McHenry 1261.

Canvas: I will be using the Canvas learning management system to post/update the syllabus and other course resources. You can log in at <https://canvas.ucsc.edu> using your CruzID and Gold password.

Piazza: We will be using the free, online question-and-answer platform Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TA, and myself. I encourage you to ask questions when you're struggling to understand a concept (you can even do so anonymously).

Text: *Linear Algebra by Sterling K. Berberian, 1st edition, 2014, Dover.*

Course Description: Review of abstract vector spaces. Dual spaces, bilinear forms, and the associated geometry. Normal forms of linear mappings. Introduction to tensor products and exterior algebras.

Grade Distribution:

Classwork	15%
Homework	20%
Midterm	30%
Final	35%

Exams: The **midterm exam** will be **Tuesday July 9th** and the **final exam** will be **Thursday July 25th**.

Classwork: During each lecture I will assign one problem (worth 3 points) with the purpose of better understanding the material discussed at that moment. You will be allowed to collaborate with your classmates (in a group of 3-4 people). To get full credit for your classwork you will need 15 points. If you cannot attend enough lectures to accumulate these points, you can choose instead to have the final exam worth 50% of your final grade.

Homework: You will be able to see the problems assigned and the due dates in Canvas. You can turn in your homework either in lecture, office hours or discussion section.

Collaboration on homework: is allowed, although if you are working with another student please state that you have done so. Who you work with may change from problem to problem, so please note your collaborators separately for each problem. However, you must work on each problem on your own before discussing it with your collaborators. All homework assignments must be written up individually and only after making sure you have a very good understanding of what you write. Failure to declare collaboration with another student will result in a grade penalty (and it is remarkably simple to tell when students have copied each other). Also, if you have used a textbook or online notes to help you understand/solve a problem please cite a reference.

Make-Up Policy: Makeups on an exam will be given at the discretion of the instructor. A legitimate and verifiable excuse is required.

Student Disabilities Policy: UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations

to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me privately during my office hours or by appointment, preferably within the first two weeks of the quarter. At this time, I would also like us to discuss ways we can ensure your full participation in the course. I encourage all students who may benefit from learning more about DRC services to contact DRC by phone at 831-459-2089 or by email at drc@ucsc.edu.