MATH 102 — Applied Linear Algebra
Summer Session II 2015         UC San Diego

Professor: David Rideout
Office: AP&M 6202
Phone: 534 2631
Email: drideout@math.ucsd.edu
Office hours: Mon. & Wed. 11:10 am – 12:40 pm

Teaching Assistants:
Geoff Ganzberger
Office: AP&M 5412
Email: gganzber@ucsd.edu
Office hours: Tue. & Wed. 6 – 8 pm

Quang Bach
Office: AP&M 5720
Email: qtbach@ucsd.edu
Office hours: Tue. & Thu. 3 – 4 pm

Class Times:
Lecture: Monday – Thursday 9:30 – 10:50 am CENTR 214 Rideout
Discussion 1: Tuesday & Thursday 12:00 – 12:50 pm AP&M B412 Ganzberger
Discussion 2: Tuesday & Thursday 1:00 – 1:50 pm AP&M B412 Ganzberger
Discussion 3: Tuesday & Thursday 2:00 – 2:50 pm AP&M B412 Bach

Final Exam: Friday 4 Sep, 8 – 11 am

Course Description and Objective:
This course will present linear algebra, in more depth than was covered in 20F. Our goal is to convey a deeper intuition for the subject, paving the way for numerous real world applications, such as image recognition and ranking search results on the Internet. The topics we will discuss include matrix decompositions, eigenvectors and eigenvalues, positive definite matrices, and singular values.


Course Website: [www.math.ucsd.edu/~drideout/math102](http://www.math.ucsd.edu/~drideout/math102)

Grading:
Your grade for the course will be given by the larger of the following two assignments of weights:

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<td>Homework</td>
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<td>Quizzes</td>
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<td>Final exam</td>
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<td>Participation</td>
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<td>Participation</td>
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Homework:
Homework assignments will be due on Tuesdays and Thursdays. They can be turned in during the discussion session, or in the homework dropbox in the basement of AP&M by 6 pm. No late homework will be accepted, however your lowest homework grade will be dropped.

We encourage you to work in groups on the homework assignments, however you must each write up your own solutions. Please do not copy solutions from the Internet. This has no educational value and does yourself a disservice.
Quizzes and Exam:
There will be weekly quizzes on Thursdays in August. Each will count 10% toward your final grade (under the ‘standard’ grade weighting above). You will not be permitted to use the book or notes during the quizzes, nor on the final exam. Please bring a blue book for each quiz. There will be no makeup quizzes, however your lowest quiz grade will be dropped.

Participation:
Please attend my office hours at least once during the course, preferably during the first two weeks. This will earn you one point of your participation grade. The remaining portion comes from contribution during class.

Graded Work:
All graded assignments will be returned during discussion section. If you feel that there is an error with your grade, you must bring this to the attention of the TA before leaving the room with the assignment.