Course:  Math 102 (Applied Linear Algebra)

Credit Hours:  4

Prerequisites:  Math 20F or Math 31AH

Summary:  This course is a sequel to 20F, intended to give you a broader and more thorough understanding of linear algebra. We will start by reviewing the content of 20F, taking a more detailed look at some topics, and then move on to new material, including applications of linear algebra to other fields. Some of the topics we will study in this course include eigenvalues and eigenvectors, matrix decompositions, determinants, positive definite matrices, and singular values.

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Office Hours:  Monday and Wednesday, 1-3pm

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Office:  Applied Physics and Math (APM) 5412
Office Hours:  Tuesday and Thursday, 3-5pm

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Office Hours:  Friday, 10-2pm

Class Times:  Lecture: Monday through Thursday 11am-12:20pm in Warren Lecture Hall 2111
Discussion:  AO1: Tuesday and Thursday 1-1:50pm in Warren Lecture Hall 2111
            AO2: Tuesday and Thursday 2-2:50pm in Warren Lecture Hall 2112


Website:  www.math.ucsd.edu/~jlobue/102/102.html

Piazza:  To sign up:  piazza.com/ucsd/summer2013/math102
Piazza is a website designed as a question and answer messageboard resource for college classes. We will be using the site to encourage collaboration with classmates. If you have a question about something that was said in lecture, or you don’t know how to get started on a recommended homework problem, try posting your question on Piazza. A classmate may be able to help you. I will monitor activity on Piazza and give my "instructor seal of approval" to answers that are correct. If you want to find classmates to form a regular study group or just want to meet to study for an exam, Piazza is a good way to reach out to the other students in the class. The only limitation with Piazza is that you should not post about graded homework questions. If you need help with one of those, ask in office hours or discussion section.

Homework:  Assignments should be placed in the homework dropbox in the basement of APM by 5pm on the due date. No late homeworks will be accepted. Each homework assignment will have three problems to be turned in, one of which will be randomly selected and graded. You can get help with solving the homework problems from your classmates, instructor, and TA, but you should write up your final solution entirely unaided. It is strongly recommended that you do additional homework problems for practice.

Quiz:  At the end of week one, there will be a quiz on Chapter 1, which covers the content of 20F.
The quiz will be administered during class on Thursday, August 8.

**Exams:** This course will have one midterm exam at the end of week three. The exam will be given in class on Thursday, August 22 and will last 70 minutes. The final exam is on Friday, September 6 from 11:30am to 2:30pm. Please make every effort to attend these exams, as there will be no make-ups.

**Project:** This course will also include a project intended to give you a taste of an interesting application of linear algebra. More details about the project will be available later.

**Grading:** Your final grade will be determined by the following scheme:

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\text{20\% Homework, 5\% Quiz, 20\% Midterm Exam, 15\% Project, 40\% Final Exam}
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There will be no curve on individual assignments or exams, but the final course grades will be curved so that the median corresponds to an 80%, or the cutoff between a B- and a C+. Additionally, you must pass the final exam to pass the course.

**Graded Work:** Graded assignments, included quizzes, homeworks, and exams, will be available from your TA in discussion section. If you find an error in the grading of your assignment, you must address your concern before leaving the room with your assignment.

**Integrity:** Academic dishonesty will be taken very seriously in this course. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. It is your responsibility to know what constitutes cheating; please review the Policy on Integrity of Scholarship, available at http://students.ucsd.edu/academics/academic-integrity.

**Accommodations:** Students with special needs or disabilities must provide an Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) as soon as possible. Please call OSD at 858-534-4382 or visit http://disabilities.ucsd.edu for more information.