Instructor: Quang T Bach

- E-mail: qtbach@ucsd.edu
- Office: AP&M 5824
- Office Hours:

Lecture Times: MWF 9:00am – 9:50am in CENTR 119


Prerequisites: Math 3C, 4C, 10A, 20A, or test equivalent.

Tentative Course Outline: We shall cover the following materials from the textbook:

- Chapter 1: Sections 1–5, 7–9 - Systems of linear equations
- Chapter 2: Sections 1–5 - Matrix algebra
- Chapter 3: Sections 1–3 - Determinants and applications
- Chapter 4: Sections 1–6 - Intro to vector spaces
- Chapter 5: Sections 1–3 - Eigenvalues and eigenvectors
- Chapter 6: Sections 1–5 - Orthogonality and Least-Squares problems

Homework (10% of your course grade): First and foremost, late homework will not be accepted. Homework assignments are posted on the class website under “Assignments” and due at 5:00pm on the indicated date at the homework dropbox in the basement of AP&M building. There will be eight assignments in total. The scores and solutions to these assignments will be available on TritonED.

Participation (10% of your course grade): This course is structured to allow opportunities for active participation during lectures, discussions, and supplemental instruction sections (in terms of solving problems, responding with iClickers, group discussion), in which every student is expected to participate. There will be opportunities to earn about 35 points, but you only need 20 of them for full credit. The participation portion of your grade will be calculated by dividing the number of participation points earned (up to a maximum of 20) by 20. The points are given as follows.

- You earn one participation point for a given lecture day by answering correctly at least 50% of the iClicker questions from that day.
- You earn at most one participation point per week by attending supplemental instruction tutoring sections at the Teaching and Learning Commons.

Note: you must sign in with your student ID to receive the credit.
MatLab (10% of your course grade): There will be five MatLab assignments and one MatLab quiz. Further information on the lab assignments and quiz can be found under the “Matlab” section on the class website. There will be TA’s/tutors available at AP&M B432 to help you with the lab section of the class.

Exams: There will be two in-class midterms and one in-class final. No textbook, notes, calculator, or any other electronic devices will be allowed. There will be no make up exam! It is your responsibility to ensure that you do not have a schedule conflict involving the exams.

- The first midterm will be held on Monday, October 23
- The second midterm will be held on Monday, November 20
- The final will be held on Wednesday, December 13 at 8:00am - covers all topics.

Grade Policy: Your grade will be based on the scores of the homework, Matlab assignments & quiz, two midterms, and the final exam. It will be the maximum of the following two scores:

10% Participation + 10% HW + 10% MatLab + 15% 1st Mid + 15% 2nd Mid + 40% Final
10% Participation + 10% HW + 10% MatLab + 15% Best Mid + 55% Final

You must pass the final examination in order to pass the course. Since there is no makeup exam, if you miss the midterm exam for any reason then your course grade will automatically be computed using the second method. The letter grade you receive at the end of the course will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>A+</th>
<th>A-</th>
<th>B+</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>97</td>
<td>93</td>
<td>90</td>
<td>87</td>
<td>83</td>
<td>80</td>
<td>75</td>
</tr>
</tbody>
</table>

The final scores may be adjusted to determine the letter grades. However, the letter grade corresponding to a given percentage will never be lower than specified by the above scale.

Regrade Policy: All graded materials will be returned in the discussion sections. If you find a grading or point totaling error on any graded material, you must return it immediately to your TA. Regrade requests will not be considered once the graded material leaves the room. If you do not retrieve your graded materials during discussion section, you must arrange to pick them up from your TA within one week after they were returned in order for any regrade request to be considered.

Grade Recording Errors: Only the grades posted on TritonED will be computed toward your final score percentage. You must keep all of your graded materials and check TritonED frequently to make sure that the grades on your papers match those recorded on TritonED. If there is any mistake in the recording of your scores, you must provide the original graded materials in order for us to make a change.

- It is your responsibility to check your scores and contact your TA before the end of the 10th week of the quarter to resolve recording errors.
- Questions regarding missing or incorrectly recorded scores will not be considered after the last day of instruction.
**Academic Honesty and Attendance Policy:** As a student of UC San Diego, you have agreed to abide by the university’s academic honesty policy. Violation of such policy may result in failing the class, suspension, and even expulsion from the university. Students are expected to attend classes regularly. Cell-phone and all electronic devices must be turned off during lecture time, unless being used for taking note. A student who is absent for an excessive amount of times may be dropped from the class.

**Important Dates:**

- Drop Deadline without an “W” .......................... October 27
- Drop Deadline without an “F” .......................... December 1
- Midterm 1 .................................................. October 23
- Midterm 2 .................................................. November 20
- Final Exam ................................................. December 13