

Course: Math 2B **Instructor: Frank Soler** **Academic Term: Winter 2009**
Office: E32a. Office Hours: M-Th 8:30 – 9:20 AM or by appointment
Office Phone/Voicemail: 408-864-8922 **E-mail: solerfrank@fhda.edu**

Pre-requisites. C or better in Math 1D

Textbook and other materials.

Book. Anton, Howard. *Elementary Linear Algebra*; Wiley and Sons Publishers, 9th edition.

Scientific Calculator. Any calculator that allows for extensive matrix manipulations.

Attendance.

In most cases, attendance is a necessity. I don't take roll. If you will be absent during an extended time period, please contact me. Make every effort to keep an accurate set of class notes.

Homework/Quizzes.

Practice Problems will be assigned to help the student focus on the content of each section. These problems will comprise the core of the course. Work them out as scheduled and keep them organized in a binder or notebook. Selected homework problems may be collected at pre-announced dates. These problems will be the basis (no, not the same problems, but similar 'type') of unannounced quizzes and exam questions. A good amount of class time will be devoted to these problems (**promptly at 10:30 AM.**) Quizzes will last from 10 to 15 minutes and will be given from time to time. Each quiz is worth 10 points. **Missed quizzes are not made up.** The lowest quiz will be dropped.

Lab projects

There will be 5-6 major lab projects. Some class time will be devoted to these. However, students are expected to spend time on their own working on these assignments. These are due on the announced date. **Late labs are not accepted.**

Exams.

See the Calendar (on back) for dates. Exams are not made up. The final exam is required. Any student not taking the final exam receives an F for the course.

Grading.

Based on total points accumulated as follows:

Midterms (100 each) = 300 points; Homework/Quizzes/Labs = 100 points; Final = 200 points.

The lowest 100 points from the midterms will be dropped. The letter-grade-scale is as follows: **A = 87%; B = 75%; C = 62%; D = 50%; F < 50%.**

Miscellaneous

From time to time, web access will be necessary. There are multiple websites with readily available algorithms involving extensive matrix manipulations.

For each midterm and the final, the student is allowed to prepare one page (8.5 by 11 inches in size, both sides) of notes.

Practice Problems (Anton, 9th Edition)

- 1.1:** 2, 3b, 4-8, 11-14
1.2: 3, 4, 6a, b, 10b, 12, 14c, 17, 22, 24, 27, 30-32
1.3: 1, 6, 7, 9, 12-14, 18, 20, 23-25, 29-32
1.4: 3, 5, 8, 13-17, 21, 27-29, 31, 32, 35, 36
1.5: 3, 4-6, 7a, 9c, 10, 12, 13, 16, 18, 19, 22, 23
1.6: 4, 8, 9, 14, 18, 20, 22, 23, 25, 28-30
1.7: 3-6, 8, 10, 15, 17, 18, 20a, 23, 26-28
- 2.1:** 1, 3b, 7, 9, 12, 19, 22, 24, 27, 29
2.2: 1b, 2, 3, 7, 8, 12, 13, 14a, 18, 19
2.3: 1-5, 8, 9, 12b, 4, 15, 18, 20, 22
2.4: 1, 2, 8, 13, 18
- 4.1:** 4, 6, 7, 10, 15, 20, 23, 24, 34, 35
4.2: 3, 6, 10, 11, 16, 20, 26
4.3: 1, 3-5, 8, 9, 11, 15, 17, 18, 21
- 5.1:** 1-3, 5, 8-10, 17a, 18
5.2: 2-4, 6, 7, 11, 12, 22
5.3: 1, 2, 5, 7, 9, 13-15
5.4: 1-4, 7, 9, 12, 15, 17, 19, 23
5.5: 2, 3, 5b, 6a, b, c; 7a, 10, 11, 13
5.6: 1-3, 5, 6, 9, 12, 13, 15
- 6.1:** 1, 3, 5, 7, 14, 20, 26, 27
6.2: 1, 3, 7-9, 11, 14-16, 18a, 21, 22, 24
6.3: 2, 4-6, 10-12, 16, 25, 29
6.4: 1-4, 10, 13-16, 18
6.5: 1-6, 8, 10, 12
6.6: 1, 3, 4, 13
- 7.1:** 2, (4-6)f, 10-12, 15, 20, 22, 23
7.2: 1, 2, 8-11, 12-15, 20, 22
7.3: 1, 2, 4, 6, 10, 11
- 8.1:** 1, 2, 5, 12-14
8.2: 1-3, 7-9, 17, 18, 21
8.3: 1, 2, 6, 10, 11
8.4: 1, 4-6, 9, 16
8.5: 2, 6, 8, 12b, 14, 16
- 9.3:** 2, 4
9.6: 8