Instructor:	Tamon Stephen
Office:	2886 Podium 2. Ph: 778–782–7429
E-mail:	tamon@sfu.ca
Meeting Time:	Monday, Wednesday, Friday 3:30–4:30 in SUR 3170
Open Lab Hours:	Monday 4:30–5:20 in SUR 3695 and Wednesday 4:30–5:20 in SUR 2710
Text:	Contemporary Linear Algebra by Anton and Busby
Grading:	10% Quizzes, 20% Midterm 1, 20% Midterm 2, 50% Final

1. **Syllabus.** Linear equations, matrices, determinants. Introduction to vector spaces and linear transformations and bases. Complex numbers. Eigenvalues and eigenvectors; diagonalization. Inner products and orthogonality; least squares problems. An emphasis on applications involving matrix and vector calculations.

   We will cover most of the first four chapters of the text, and parts of chapters 5 through 8.

2. **Homework.** There will be weekly homework assignments during the term. Homework will not be collected, but you are encouraged to write up the homework yourself in a "homework journal". If you wish to ask questions to the instructor or TA's about the homework or otherwise, you should bring your homework journal with you to help us understand where you are having difficulties.

3. **Quizzes.** There will be weekly quizzes given in class. These will take about 10 to 15 minutes each and will consist of two problems from the most recent homework set or slight variations of them. You will be required to give full solutions, and the quizzes will be collected and graded. Your lowest quiz score will be dropped when calculating the quiz portion of your grade.

   Books, notes and calculators **cannot** be used on these quizzes.

4. **Exams.** Books, notes and calculators **cannot** be used on these tests. Students **must** plan to take the tests at their scheduled times.

   The tentative dates and times for the tests are:

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   Midterm I: Wednesday, October 5th, 3:30-4:20 PM  (in class)
   Midterm II: Wednesday, November 9th, 3:30-4:20 PM  (in class)
   Final: Thursday, December 15th, 3:30-6:30 PM
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   As you know, exams **cannot** be rescheduled due to travel plans. Please check now and let me know if you have back-to-back final exams on different campuses (e.g. Surrey and Burnaby). In this case arrangements will be made so that you can write both exams in one place.

5. **Religious Accommodations.** Students requesting religious accommodation must tell the instructor by the end of the first week of term.

6. **Drop Dates.** The drop date for students to avoid getting a WD on their transcript is **Monday, September 26th**. The final drop date for students is **Tuesday, October 11th**. SFU maintains a list of important deadlines for students at:
   `http://students.sfu.ca/deadlines/`.

7. **Materials on the Web.** Course information will be posted on the Math 232 WebCT page, to which you should have access during the term. See: `http://webct.sfu.ca`.

8. **Reading.** There will be assigned reading. Please do it.

9. **Reserve Books.** There is a copy of the course text on reserve at the SFU Surrey library. Additionally Lay's *Linear Algebra and its Applications*, Leon's *Linear Algebra with Applications* and Strang's *Introduction to Linear Algebra* are on reserve. All three textbooks cover the same material as Anton and Busby, but the presentation is slightly different.

10. **Student Solutions Manual.** A student solutions manual that contains worked solutions to odd-numbered exercise is available for purchase from the publisher.

11. **Laptops.** As a courtesy to other students, please sit in the back row if you plan to use a laptop during the lecture.

12. **Industrial Mathematics and Operations Research.** Linear Algebra is ubiquitous in application in business and industry, the applications studied in this course are only a small sample. You may be interested in the Industrial Mathematics program offered at SFU, in particular new Operations Research and Applied Statistics option which is based in Surrey.

    Please see the instructor if you are interested in finding out more about this program.

13. **Questions.** Questions are encouraged in class and out.

14. **Office hours.** All office hours will be held in the Open Lab (OL). See below.

15. **Open Lab.** Teaching assistants will be available to help you in the Open Lab (OL). This is also where I will hold my office hours. The OL is located in the Yosef Wosk Student Learning Commons (YWSLC), Room 3695 (next to the library) on Mondays and Tuesdays, and in SUR 2710 Wednesday through Friday. The Open Labs will begin in the second week of classes (week of Sept. 14th). A schedule of instructors and TA office hours will be posted at the lab and on WebCT.

    The Open Lab is an excellent place for seeking help.

16. **Math 240.** A more theoretical linear algebra course covering similar material is Math 240, which is offered in the Spring and Summer (in Burnaby). Note that students with credit for Math 232 cannot take Math 240 for further credit.

Have a great term!