Instructor: Dr. E. Cohen, Office: LB 921-1 (SGW), Phone: 848-2424, Ext. 3219
Email: elie.cohen@concordia.ca


Assignments: You will be required to hand in weekly assignments. They reflect the content of the course. No late assignments will be accepted. Solutions will be posted at the Digital Store (LB-115).

Class Test: There will be one class test in the seventh week of classes, covering the first five weeks of the course. There will be no make-up test.

Final Grade: The final examination will be three hours long. It will cover material from the entire course.

Grading: Your final grade is the maximum of the final examination grade counted as 100%, and a grade computed by adding 60% of your mark on the final examination to your class test 30%, and your assignments 10%.

If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Calculators: Only calculators approved by the Department are permitted in the class test(s) and final examination. The calculators are the Sharp EL 531 and the Casio FX 300MS, available at the Concordia Bookstore.
### Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University’s policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia’s website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: concordia.ca/students/academic-integrity." [Undergraduate Calendar, Sec 17.10.2]

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<th>Week</th>
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| 1    | 1.2, 1.3| Vector Spaces, Subspaces | 1.2: 19, 20  
1.3: 10, 12, 17 |
| 2    | 1.4, 1.5| Linear Combinations,  
Systems of Equations  
Linear Dependence and Independence | 1.4: 5(d,f,h), 6, 12  
1.5: 2(b,d,f), 8a, 10 |
| 3    | 1.6     | Basis and Dimension | 1.6: 3(b,d), 8, 14, 16, 30 |
| 4    | 2.1     | Linear Transformations, Null Spaces, Ranges | 2.1: 3, 6, 9b, 11, 14 |
| 5    | 2.2     | Matrix Representation of Linear Transformation | 2.2: 2(b,e), 4, 5(a,d,f), 10 |
| 6    | 2.3     | Composition of Linear Transformations, Matrix Multiplication | 2.3: 3(a,b), 9, 11, 12c, 13, 15 |
| 7    |         | CLASS TEST | |
| 8    | 2.4     | Invertibility and Isomorphisms  
Change of Coordinate Matrix | 2.4: 6, 9, 15, 16, 17  
2.5: 2(b,d), 3f, 6(b,d) |
| 9    | 3.1, 3.2, 3.3| Elementary Matrices, Rank of Matrices,  
Matrix Inverses, Systems of Equations | 3.2: 2f, 4b, 5h, 6(d,f), 20a  
3.3: 2d, 3d |
| 10   | 3.4     | Systems of Equations | 3.4: 2j, 6*, 8, 10, 12  
(*In question 6: Determine A if the first, third and FIFTH columns…*) |
| 11   | 4.4     | Summary about Determinants,  
Eigenvalues and Eigenvectors | 4.4: 3h, 4h  
5.1: 2d, 3(b,d), 4(c,d,g), 15(a,b) |
| 12   | 5.2     | Diagonalizability | 5.2: 2(b,d,f), 3(b,f), 7, 8, 9 |
| 13   |         | REVIEW | |