

VANIER

C É G E P / C O L L E G E

Faculty of Science and General Studies
Department of Mathematics

Course Title: Linear Algebra I
Course Number: 201-NYC-05
Section: 02001
Semester: Autumn 2015

Teacher: I.T. Ivanov
Office: D264
Phone: 514-744-7500 ext. 7737
Email: ivanovi@vaniercollege.qc.ca
Webpage: gauss.vaniercollege.qc.ca/~iti

Course Description: The aim of this course is to teach the student to understand and perform computations involving vectors, matrices, and systems of linear equations. **Content:** 1. Systems of linear equations; 2. Matrices, matrix algebra; 3. Determinants; 4. Vectors in two and three dimensions, lines, planes; 5. Vector spaces, basis.

Ponderation: Theory 3 hours per week, Lab 2 hours per week, Homework 3 hours per week

Prerequisites: For a list of prerequisites, please consult the course description on the master course schedule, <http://www.vaniercollege.qc.ca/online-schedule>.

Teaching Methods: Numerous techniques will be used in the classroom in the delivery of the course material. These methods will include lectures as well as problem solving and group work. A combination of lectures, class exercises, along with homework will prepare the students for two tests and a final exam. The Computer Algebra system Maple will be introduced in the course.

Textbook: Linear Algebra With Applications, ISBN: 9781259066405, Author: K. Nicholson, Publisher: McGraw-Hill, Edition: 7, Price: \$51.55

Additional Expenses: None anticipated. A calculator is required for the course.

Office Hours: 12.30 pm – 3 pm Wednesdays

Competencies to be achieved: For the course objectives and the expected learning outcomes please consult the [course content document](#).

Important Dates: Tests 1 and 2 will be given during the 5th and 10th week of classes respectively. The Final Exam will be during the final exam period. Homework assignments and class exercises will be due every week.

Evaluation Procedures and Breakdown of Marks:

Problem solving	20% (Homework, Class exercises)
Test 1	20%
Test 2	25%
Final exam	35%

Academic Resources: The Mathematics and Science Centre provides free peer tutoring every workday during regular office hours in F540. You could request extra homework and/or materials from the teacher. Extended and emergency office hours are available upon request.

Course Policies: You are responsible for all work, even if you are absent. If you miss a test, you must provide a doctor's note. All electronic devices such as cell phones, tablets etc. must be turned off and out of sight upon entering class.

General Academic Policies: It is the student's responsibility to be familiar with and adhere to the Vanier College Academic Policies. These policies can be found online on the Vanier College Official Policies page at <http://www.vaniercollege.qc.ca/policies>. Your attention is drawn in particular to the following policies. A brief summary of each is included. For the complete version of each policy, please consult the aforementioned webpage.

Student Academic Complaints (Policy number 7210 - 8) The Vanier College Student Academic Complaints Policy and procedures puts an emphasis on mediation as the primary means to resolve complaints in the academic area. If you have a problem with a teacher and have been unable to resolve it by talking with him or her, you may wish to enlist the help of the Faculty Mediation Committee. The committee member names and contact information are available in Student Services or through the office of the Faculty Dean.

Cheating and Plagiarism (Policy number 7220 - 31) Any form of cheating or plagiarism will result in a grade of zero on the test or assignment and a letter from the teacher will be placed in your file. A repeated offence may lead to even more serious consequences. Please consult the Vanier Student Writing Guide, the Vanier College Catalogue, the Student Handbook, the policy online and your teacher for more information.

Student Misconduct in the Classroom (Policy number 7210 - 19) This policy provides guidelines for handling cases of student misbehaviour in the classroom and other instructional settings. Such cases may include conduct that is abusive to the teacher and/or other students, or disruptive to the teaching/learning process. This policy does not limit the teacher's or the College's right to take immediate action in cases of imminent danger to persons or property.

Zero Tolerance (Policy number 7110 - 2) The following disruptive behaviours will not be tolerated in any degree on campus: Unauthorized Use of Alcohol/Illegal Drugs; Violence against Persons or Property; Possession of Weapons; Verbal or Written Abuse or Intimidation; Theft or Gambling.

Student Absences for Religious Holy Days (Policy number 7210 - 20) Students whose religious obligations require them to be absent from the College on a holy day not formally recognized in the College calendar must inform their teachers, in writing, during the first week of classes, of the particular date(s) and times of the religious holy days on which they must be absent. Absences approved in this manner are considered to be excused absences. Students are responsible for material covered in the classes and labs they miss.