



MATH 2030
Matrix Theory/Linear Algebra I

Summer 2017, May 9th to June 22th
TR 6:05-8:55pm, LSC C238

Instructor

Marie B.Langlois
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Chase Building 327

Tentative Office Hours: MTWR 2:00-3:30 in the Math Learning Centre (Chase 119). Additional times by appointment or drop-in. If I am in the Learning Centre (which happens a lot) that means I am happy to answer your questions.

The Math & Stats Student Resource Centre: (Room 119, first floor of the Chase Building) A tutor will normally be available Mon-Fri on a first come, first served basis, free of charge. Check out the following link for Learning Centre schedules:
<http://www.dal.ca/faculty/science/math-stats/about/learning-centre.html>

Any changes to this syllabus will be discussed in class, and will be reflected on the course webpage.

Course Description: This course is a self-contained introduction to Matrix Theory and Linear Algebra. Topics include: subspaces, linear transformations, determinants, eigenvalues and eigenvectors, systems of linear equations.

Prerequisite: Nova Scotia advanced Mathematics 11 or 12. Students should note that this is a second-year course and, although it has no formal first-year prerequisites, certain mathematical maturity is expected.

Credit Hours: 3

Text: *Schaum's outlines*, Linear Algebra, 5th Edition

Author: Seymour Lipschutz, Marc Lipson

Course Content: We will cover chapter 1, 2, 3, 8 and 9.

Grade Distribution:

Scheme 1:

- Assignments: 15%
- In class work: 10%
- Midterm Exam: 25%
- Final Exam: 50%

Scheme 2:

- Assignments: 15%
- In class work: 10%
- Final Exam: 75%

Letter Grade Distribution:

[90-100]	A+	[77-80)	B+	[65-70)	C+	[50-55)	D
[85-90)	A	[73-77)	B	[60-65)	C	[0-50)	F
[80-85)	A-	[70-73)	B-	[55-60)	C-		

Course Policies:

• **Assignments**

- There will be 6 assignments.
- Assignments will be ready on Brightspace at least 5 days before they are due.
- I encourage you to work with others on assignments. However, each student should write out his or her own written assignment. Copying is strictly prohibited. See the Dalhousie academic integrity policy for details.
- Late assignments will not be accepted.

• **Midterm and Exam**

- The midterm will take place in class from 6:05 to 7:35 on May 30.
- Nothing but writing utensils and erasers are allowed to be used on exams.
- No makeup midterm will be given.
- The final exam will be on August 18 **from 9:00am-12:00pm.**

• **Attendance and in class work**

- Attendance to lectures is expected.
- There will be roughly 10 short in class evaluation, for which you are encourage to work in groups.
- I will drop your two worst grades for the in class work.

Accommodation

Students may request accommodation as a result of barriers related to disability, religious obligation, or any characteristic under the Nova Scotia Human Rights Act. Students who require academic accommodation for either classroom participation or the writing of tests, quizzes and exams should make their request to the Advising and Access Services Center (AASC) prior to or at the outset of each academic term. Please see www.dal.ca/access for more information and to obtain Form A - Request for Accommodation.

Academic Integrity

Academic integrity, with its embodied values, is seen as a foundation of Dalhousie University. It is the responsibility of all students to be familiar with behaviours and practices associated with academic integrity. Instructors are required to forward any suspected cases of plagiarism or other forms of academic cheating to the Academic Integrity Officer for their Faculty. The Academic Integrity website (<http://academicintegrity.dal.ca>) provides students and faculty with information on plagiarism and other forms of academic dishonesty, and has resources to help students succeed honestly. The full text of Dalhousie's Policy on Intellectual Honesty and Faculty Discipline Procedures is available here: http://www.dal.ca/dept/university_secretariat/academic-integrity/academic-policies.html

Student Code of Conduct

Dalhousie University has a student code of conduct, and it is expected that students will adhere to the code during their participation in lectures and other activities associated with this course. In general: The University treats students as adults free to organize their own personal lives, behaviour and associations subject only to the law, and to University regulations that are necessary to protect:

- the integrity and proper functioning of the academic and non academic programs and activities of the University or its faculties, schools or departments;
- the peaceful and safe enjoyment of University facilities by other members of the University and the public;
- the freedom of members of the University to participate reasonably in the programs of the University and in activities on the University's premises;
- the property of the University or its members.

The full text of the code can be found here: http://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html

Copyright

All members of the Dalhousie community are expected to comply with their obligations under Canadian copyright law. Dalhousie copyright policies and guidelines, including our Fair Dealing Guidelines, are available at <http://www.dal.ca/dept/copyrightoffice.html>. Copyright questions should be directed to the Copyright Office at copyright.office@dal.ca.