



**DALHOUSIE
UNIVERSITY**

**Faculty of Science Course Syllabus
Department of Mathematics & Statistics**

**MATH 2135 Linear Algebra
Winter 2019**

Instructor: Professor Sara Faridi (faridi@mathstat.dal.ca)
Office: Chase 314
Lectures: Tuesdays & Thursdays 1:05 pm -- 2:25 pm Chemistry 223
Office Hours: Tuesdays 2:30 – 3:30 pm & Wednesdays 9 -- 10 am in Chase 314
Website: <http://mathstat.dal.ca/~faridi/teaching/2135.html>

Course Description: *Vector spaces, linear transformations, inner product spaces, symmetric and orthogonal transformations, bilinear forms, similarity and diagonalization, the solution of linear differential equations, and various applications.*

Course Prerequisites: MATH 1030 or 2030 & MATH 1000

Required Course Material: “Linear Algebra Done Right” by Sheldon Axler (third edition)

Course Content: *We will be covering most of the topics in textbook, and will do applications as time allows.*

Course Assessment: Component	Weight (% of final grade)	Date
<i>Midterm exam</i>	25%	<u>Thursday February 14, in class</u>
<i>Final exam</i>	50%	TBD
<i>Assignments</i>	25%	Weekly or biweekly

Course Policies: *Homework will be assigned at the end of each topic. All or some problems on each assignment will be graded. Homework is due at the beginning of class. Late homework counts as zero, but at the end of the term the two lowest homework grades for each student will be dropped. You may work in groups on problems, but the written work that is handed to me should be written by each student individually. In particular, I do not accept work that is too similar to another person's.*

Practice problems may be assigned during some classes. Students are expected to think about these problems and participate in discussions about them. A missed exam counts as zero unless a doctor's note is presented or prior arrangements have been made with me. Calculators, textbooks, and notes are not allowed in exams.

Conversion of numerical grades to Final Letter Grades follows the Dalhousie Common Grade Scale

<i>A+ (90-100)</i>	<i>B+ (77-79)</i>	<i>C+ (65-69)</i>	<i>D</i>	<i>(50-54)</i>
<i>A (85-89)</i>	<i>B (73-76)</i>	<i>C (60-64)</i>	<i>F</i>	<i>(<50)</i>
<i>A- (80-84)</i>	<i>B- (70-72)</i>	<i>C- (55-59)</i>		

University Policies and Statements

This course is governed by the academic rules and regulations set forth in the University Calendar and by Senate

Academic Integrity

At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.

Information: https://www.dal.ca/dept/university_secretariat/academic-integrity.html

Accessibility

The Advising and Access Services Centre is Dalhousie's centre of expertise for student accessibility and accommodation. The advising team works with students who request accommodation as a result of a disability, religious obligation, or any barrier related to any other characteristic protected under Human Rights legislation (Canada and Nova Scotia).

Information: https://www.dal.ca/campus_life/academic-support/accessibility.html

Student Code of Conduct

Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner—perhaps through a restorative justice process. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution.

Code: https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html

Diversity and Inclusion - Culture of Respect

Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported, which is why our Strategic Direction prioritizes fostering a culture of diversity and inclusiveness

Statement: <http://www.dal.ca/cultureofrespect.html>

Recognition of Mi'kmaq Territory

Dalhousie University would like to acknowledge that the University is on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit or e-mail the Indigenous Student Centre (1321 Edward St) (elders@dal.ca).

Information: https://www.dal.ca/campus_life/communities/indigenous.html

Important Dates in the Academic Year (including add/drop dates)

https://www.dal.ca/academics/important_dates.html

University Grading Practices

https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html

Missed or Late Academic Requirements due to Student Absence (policy)

https://www.dal.ca/dept/university_secretariat/policies/academic/missed-or-late-academic-requirements-due-to-student-absence.html

Student Resources and Support

Advising

General Advising https://www.dal.ca/campus_life/academic-support/advising.html

Science Program Advisors: <https://www.dal.ca/faculty/science/current-students/academic-advising.html>

Indigenous Student Centre:
https://www.dal.ca/campus_life/communities/indigenous.html

Black Students Advising Centre: https://www.dal.ca/campus_life/communities/black-student-advising.html

International Centre: https://www.dal.ca/campus_life/international-centre/current-students.html

Academic supports

Library: <https://libraries.dal.ca/>

Writing Centre: https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html

Studying for Success: https://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html

Copyright Office: <https://libraries.dal.ca/services/copyright-office.html>

Fair Dealing Guidelines <https://libraries.dal.ca/services/copyright-office/fair-dealing.html>

Other supports and services

Student Health & Wellness Centre: https://www.dal.ca/campus_life/health-and-wellness/services-support/student-health-and-wellness.html

Student Advocacy: <https://dsu.ca/dsas>

Ombudsperson: https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html

Safety

Biosafety: <https://www.dal.ca/dept/safety/programs-services/biosafety.html>

Chemical Safety: <https://www.dal.ca/dept/safety/programs-services/chemical-safety.html>

Radiation Safety: <https://www.dal.ca/dept/safety/programs-services/radiation-safety.html>

Scent-Free Program: <https://www.dal.ca/dept/safety/programs-services/occupational-safety/scent-free.html>