



**FACULTY OF SCIENCE**  
Department of Mathematics and Statistics  
2500 University Drive NW  
Calgary, AB, Canada T2N 1N4  
ucalgary.ca

UNIVERSITY OF CALGARY  
DEPARTMENT OF MATHEMATICS AND STATISTICS  
COURSE OUTLINE

- 1. Course:** MATH 411 Linear Spaces with Applications  
L01: MWF 2-2:50 pm, MS 527 T01: W 4-4:50 pm, MS 527  
Instructor: Elena Braverman  
Office MS 444 Tel. No. 403-220-3956 e-mail address [maelena@math.ucalgary.ca](mailto:maelena@math.ucalgary.ca)  
Office Hours: M 12-12:45 T 13:30-14:30 WF 15:00-16:00  
Course website is on Desire 2 Learn (D2L) Math 411 at <https://d2l.ucalgary.ca>  
Department of Mathematics and Statistics – MS476 Telephone number – 403-220-5210
- 2. Prerequisites:** MATH 311 and one of MATH 353, AMAT 309, MATH 331, MATH 381  
(see Section 3.5C of Faculty of Science [www.ucalgary.ca/pubs/calendar/current/sc-3-5.html](http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html) and Course Descriptions: [www.ucalgary.ca/pubs/calendar/current/course-desc-main.html](http://www.ucalgary.ca/pubs/calendar/current/course-desc-main.html)) .
- 3. Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Quizzes (5)	30%
Midterm test (1)	20% (February 26, 2014 at 4pm)
Final Examination	50% (To be scheduled by the Registrar)

**The midterm exam will be during tutorial time on Wednesday, February 26. There will be 5 quizzes on January 22, February 5, March 12, March 26, April 9, 2014. A passing grade in the final exam is essential to pass the course.** The conversion between course percentage and letter grade is given below

Letter Grade Conversions	
Letter Grade	% range
A+	>96
A	89–95
A-	85–88
B+	81–84
B	76–80
B-	71–75
C+	66–70
C	61–65
C-	58–60
D+	54–57
D	50–53
F	<50

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in Section 3.6. It is the student's responsibility to familiarize himself/herself with these regulations. See also Section E.6 of the University Calendar.
5. **Course Materials:** Course Textbook: K. Hoffman and R. Kunze, Linear Algebra, Second edition, Prentice Hall, or S. Lipschutz and M. Lipson, Schaum's Outline of Linear Algebra (anyone of 2 is recommended)
6. **Examination Policy:** No calculators, books or formula sheets are allowed on the tests. Students should also read the Calendar, Section G, on Examinations.

#### 7. OTHER IMPORTANT INFORMATION FOR STUDENTS:

(a) **Academic Misconduct:** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under Section K. Student Misconduct to inform yourself of definitions, processes and penalties

(b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.

(c) **Academic Accommodation Policy:** Students with documentable disabilities are referred to the following links:

Calendar entry on students with disabilities and Student Accessibility Services. MSC452 Phone: 220-8237

(d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

(e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.

(f) **Student Union Information:** VP Academic Phone: 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: 220-3913 Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca)  
Student Ombudsman Phone: 220-6420 Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca)

(i) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.