



DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2013
MA 1020 A3
APPLIED LINEAR ALGEBRA

INSTRUCTOR: Tom McLeister **PHONE:** (780) 539-2961

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OFFICE HOURS: M,F 10:30—12:00 T,R 12:00---13:30

PREREQUISITE: MA 1000

REQUIRED TEXT/RESOURCE MATERIALS:

Nicholson: Linear Algebra With Applications 6 E, McGraw-Hill Ryerson 2009

CALENDAR DESCRIPTION:

Vectors and matrices, solution of linear equations, equations of lines and planes, determinants, matrix algebra, orthogonality and applications (Gram-Schmidt), eigenvalues and eigenvectors and applications, complex numbers will be covered in the course.

CREDIT/CONTACT HOURS: 3.5 (3-1-0) UT

DELIVERY MODE(S):

Lecture:	10:00 – 11:20	T R	J228
Seminar:	AS1 15:30-16:20	M	J228

TRANSFERABILITY:

University of Alberta *, University of Calgary *, University of Lethbridge *, Athabasca University *, Augustana Faculty, University of Alberta *, Concordia University College, Grant MacEwan University, King's University College. (From the GPRC course catalog)

* An asterisk (*) beside any transfer institution indicates important transfer information. Consult the Alberta Transfer Guide

Note: A grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS:

Assignments:	10%
Quizzes:	15%
Midterm:	25% (Thursday, March 7, 2012)
Final Exam:	50% (Cumulative and scheduled during exam period, TBA)

Note: There will be no make-up quizzes or exams. If a quiz/test is missed for a valid reason and proper documentation is provided, then the weight of the quiz/test will be transferred to another component.

ASSIGNMENTS: Most weeks an assignment will be handed out (and/or posted on Moodle), at the beginning of the week, and will be due by the end of the week.

QUIZZES: Quizzes will be held roughly every other Tuesday beginning Jan. 22.

FINAL EXAM: The final exam will be written during the exam period, between April 18 and April 29 inclusive (including Saturdays and evenings). It is the student's responsibility to be available to write the exam at the scheduled time. Writing early is not permitted.

CALCULATORS: Use of calculators is not permitted on the quizzes or exams.

STUDENT RESPONSIBILITIES:

Attend all lectures and seminars. If a lecture or seminar is missed, it is the student's responsibility to catch up on the material and obtain the missing lecture notes.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week	Text Sections	Notes
1. Jan. 8-11	1.1,1.2	First class: Tues., Jan. 8
2. Jan. 14-18	1.3, 1.4, 2.1	
3. Jan. 21-25	2.2, 2.3	Quiz 1
4. Jan. 28-Feb. 1	2.4, 2.5, 2.6	
5. Feb.4- 8	3.1, 3.2	Quiz 2
6. Feb. 11-15	3.3, 3.4*, 3.5*, 4.1	
Feb. 18-22, Winter Break		
7. Feb. 25-Mar. 1	4.2, 4.3	Quiz 3
8. Mar. 4- 8	4.4	Midterm (Thur. Mar. 7)
9. Mar. 11-15	5.1, 5.2	Mar. 11, last day to withdraw
10. Mar. 18-22	5.3, 5.4	Quiz 4
11. Mar. 25-29	5.5, Appendix A, 5.6 *	
12. Apr. 1-5	6.1, 6.2	Quiz 5
13. Apr. 8-12	6.3, 6.4	
14. Apr. 15,16	6.6	Apr. 16, last day of classes
Apr. 18-29 Final Exams		

*Time permitting