



DEPARTMENT OF SCIENCE

COURSE OUTLINE – FALL 2012

MA 1200 A2

LINEAR ALGEBRA I

INSTRUCTOR: Brian Redmond,
Ph.D.

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OFFICE: J206

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OFFICE HOURS: M W 10:00 – 11:30

PREREQUISITE: Pure Mathematics 30

REQUIRED TEXT/RESOURCE MATERIALS:

W. Keith Nicholson, Linear Algebra with Applications, 6E, McGraw-Hill, 2009.

CALENDAR DESCRIPTION:

Systems of linear equations, vectors in n -space, vector equations of lines and planes, matrix algebra, inverses and invertibility, introduction to linear transformations, subspaces of n -space, determinants, introduction to eigenvalues and eigenvectors, the dot product and orthogonality, applications in a variety of fields.

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

DELIVERY MODE(S):

Lecture: 10:00-11:20 T R J107

Seminar: 9:00-9:50 W F J107

TRANSFERABILITY: UA, UC, UL, AU, GMU, etc. Transfers to other institutions: Consult the Alberta Transfer Guide for more information.**

**Note: 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:	12.5%
Quizzes:	12.5%
Midterm:	25% (Tuesday, October 30, 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. Late assignments will not be accepted.

STUDENT RESPONSIBILITIES:

Attend all lectures and seminars. If a lecture or seminar is missed, it is your responsibility to catch up on the material and to 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/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week	Sections	Notes
1. Sept 3-7	Introduction	First class: Thurs. Sept. 6
2. Sept. 10-14	1.1,1.2	
3. Sept. 17-21	1.3,2.1	
4. Sept. 24-28	2.2,2.3	Quiz 1
5. Oct. 1-5	2.4,2.5	
6. Oct. 8-12	2.6,2.7	Mon. Oct. 8 (no classes)
7. Oct. 15-19	3.1,3.2	Quiz 2
8. Oct. 22-26	3.3, Review	
9. Oct. 29-Nov.2		Midterm: Tues. Oct. 30 Nov. 2 (last day to drop)
10. Nov. 5-9	4.1,4.2	Nov. 9 Fall Break (no classes)
11. Nov. 12-16	4.3	Nov. 12,13 Fall Break (no classes)
12. Nov. 19-23	4.4,5.1	Quiz 3
13. Nov. 26-30	5.2,5.3	
14. Dec. 3-7	5.4,5.5	Dec. 7 (Science Open House) Quiz 4
15. Dec. 10-14	5.6	Dec. 11 – last day of classes
16. Dec. 13-22		Final Exams