



DEPARTMENT OF SCIENCE

COURSE OUTLINE – FALL 2016

**MA 1200 A3 3 (3-1-0) UT 60 HOURS 15 WEEKS
LINEAR ALGEBRA I**

INSTRUCTOR: Tom Kaip

PHONE: (780) 539-2963

OFFICE: J218

EMAIL: tkaip@gprc.ab.ca

OFFICE

HOURS: TBA

PREREQUISITE: Mathematics 30-1 or equivalent

REQUIRED TEXT/RESOURCE MATERIALS:

Nicholson: Linear Algebra With Applications 7th Edition, McGraw-Hill Ryerson 2013

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.

DELIVERY MODE(S):

Lecture:	10:00 – 11:20	M W	J202
Seminar:	A2 10:00 – 10:50	F	J202
	B2 08:30 – 09:20	F	J202

COURSE OBJECTIVES: This course provides an introduction to linear algebra and their applications. The main topics are: 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.

LEARNING OUTCOMES: The student should be able to demonstrate knowledge of the course objectives describe above.

TRANSFERABILITY:

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

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

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	95 – 100	EXCELLENT
A	4.0	90 – 94	
A ⁻	3.7	85 – 89	FIRST CLASS STANDING
B ⁺	3.3	80 – 84	
B	3.0	75 – 79	GOOD
B ⁻	2.7	70 – 74	
C ⁺	2.3	66 – 69	SATISFACTORY
C	2.0	62 – 65	
C ⁻	1.7	58 – 61	
D ⁺	1.3	55 – 57	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% TBA

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.

ASSIGNMENTS: There will be take-home assignments to be handed in for grading.

QUIZZES: Quizzes will be held roughly every other week.

FINAL EXAM: The final exam will be written during the exam period, between Dec 10-19 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/**

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