



**DEPARTMENT OF SCIENCE**  
**COURSE OUTLINE – FALL 2014**  
**MA 1200 A2**  
**LINEAR ALGEBRA I**

**INSTRUCTOR:** Brian Redmond, Ph.D.      **PHONE:** (780) 539-2093  
**OFFICE:** J206      **EMAIL:** bredmond@gprc.ab.ca

**OFFICE HOURS:** M 1:00-2:30pm  
W 10:00-11:30am

**PREREQUISITE:** Mathematics 30-1 or equivalent

**REQUIRED TEXT/RESOURCE MATERIALS:**

W. Keith Nicholson, Linear Algebra with Applications, 7E, 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.

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

**DELIVERY MODE(S):**

Lecture:	10:00-11:20	T R	J202
Seminar:	8:30-9:20 & 10:00-10:50	F	J202

**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

**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/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

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

**STUDENT RESPONSIBILITIES:** If an assignment, quiz or exam is missed for a *valid* reason, the weight will be transferred to another component of the course; there will be no rewrites or late assignments accepted. Students are responsible for all lecture material, seminars and readings. Please check Moodle regularly for course information and announcements.

**EVALUATIONS:** Assignments: 10%      Quizzes: 15%      Midterm: 25%      Final Exam: 50%

**GRADING CRITERIA:**

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>	<b>Designation</b>
<b>A<sup>+</sup></b>	<b>4.0</b>	<b>95 – 100</b>	<b>EXCELLENT</b>
<b>A</b>	<b>4.0</b>	<b>90 – 94</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>85 – 89</b>	<b>FIRST CLASS STANDING</b>
<b>B<sup>+</sup></b>	<b>3.3</b>	<b>80 – 84</b>	
<b>B</b>	<b>3.0</b>	<b>75 – 79</b>	<b>GOOD</b>
<b>B<sup>-</sup></b>	<b>2.7</b>	<b>70 – 74</b>	
<b>C<sup>+</sup></b>	<b>2.3</b>	<b>66 – 69</b>	<b>SATISFACTORY</b>
<b>C</b>	<b>2.0</b>	<b>62 – 65</b>	
<b>C<sup>-</sup></b>	<b>1.7</b>	<b>58 – 61</b>	
<b>D<sup>+</sup></b>	<b>1.3</b>	<b>55 – 57</b>	<b>MINIMAL PASS</b>
<b>D</b>	<b>1.0</b>	<b>50 – 54</b>	
<b>F</b>	<b>0.0</b>	<b>0 – 49</b>	<b>FAIL</b>
<b>WF</b>	<b>0.0</b>	<b>0</b>	<b>FAIL, withdrawal after the deadline</b>

**COURSE SCHEDULE/TENTATIVE TIMELINE:**

1. Sept. 1-5	Introduction	First class: Thurs. Sept. 4
2. Sept. 8-12	1.1, 1.2	
3. Sept. 15-19	1.3, 1.6	
4. Sept. 22-26	2.1, 2.2, 2.3	
5. Sept. 29-Oct. 3	2.4, 2.5	
6. Oct. 6-10	3.1, 3.2	
7. Oct. 13-17	3.3, review	Mon. Oct. 13 – Thanksgiving Day
8. Oct. 20-24	4.1	<b>Tuesday, Oct. 21 - Midterm</b>
9. Oct. 27-31	4.1, 4.2	Oct. 29 - last day to withdraw
10. Nov. 3-7	4.3, 4.4	
11. Nov. 10-14	5.1, 5.2	Monday, Nov. 10 - Fall Break Tuesday, Nov. 11 – Remembrance Day
12. Nov. 17-21	5.3, 5.4	
13. Nov. 24-28	5.5, 5.6 (5.7 optional)	
14. Dec. 1-5	2.6	
15. Dec. 8		Dec. 8 – last day of classes
Dec. 10-19		Final Exams