



DEPARTMENT OF SCIENCE
COURSE OUTLINE – FALL 2013
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 1:00-2:00pm
W F 10:00-11:00am
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: | 9:00-9:50 | W 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/**

**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:

| 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 |

COURSE SCHEDULE/TENTATIVE TIMELINE:

| | | |
|--------------------|-------------------------|-----------------------------------|
| 1. Sept. 2-6 | Introduction | First class: Thurs. Sept. 5 |
| 2. Sept. 9-13 | 1.1, 1.2 | |
| 3. Sept. 16-20 | 1.3, 1.6 | |
| 4. Sept. 23-27 | 2.1, 2.2, 2.3 | |
| 5. Sept. 30-Oct. 4 | 2.4, 2.5 | |
| 6. Oct. 7-11 | 3.1, 3.2 | |
| 7. Oct. 14-18 | 3.3, review | Mon. Oct. 14 - thanksgiving |
| 8. Oct. 21-25 | 4.1 | Tuesday, Oct. 22 - Midterm |
| 9. Oct. 28-Nov.1 | 4.1, 4.2 | Oct. 30 - last day to withdraw |
| 10. Nov. 4-8 | 4.3, 4.4 | Friday, Nov. 8 - Fall Break |
| 11. Nov. 11-15 | 5.1, 5.2 | Monday, Nov. 11 - Fall Break |
| 12. Nov. 18-22 | 5.3, 5.4 | |
| 13. Nov. 25-29 | 5.5, 5.6 (5.7 optional) | |
| 14. Dec. 2-6 | 2.6 | |
| 15. Dec. 9-10 | Review | Dec. 10 – last day of classes |
| Dec. 12-21 | | Final Exams |