M 221.02: Introduction to Linear Algebra

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University of Montana, Missoula

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This syllabus contains information about this class. Please read this carefully and keep it for future reference (in case you lose it, a copy of the syllabus will be posted on the class Moodle page). In case you have questions, please do not hesitate to ask me. A good time for questions is right after class or during office hours.

INSTRUCTORS: Javier Perez Alvaro (Office: Math 205A, Phone: 243-5562)
Email: javier.perez-alvaro@mso.umt.edu

OFFICE HOURS: See http://www.umt.edu/people/perezalvaro for up-to-date office hours

PREREQUISITE: M172 or M182, or consent of instructor

MOODLE PAGE: https://moodle.umt.edu/course/view.php?id=25769
Homework assignments and other information pertinent to this course will be posted at this web site.

TEXT: Introduction to Linear Algebra, by Gilbert Strang.

LEARNING OUTCOMES: The learning goals for this course are:

• Solve systems of linear equations and solve matrix equations;
• Identify linearly dependent and independent sets of vectors;
• Compute bases for column, row and null spaces;
• Represent linear transformations with matrices;
• Compute and use determinants;
• Compute eigenvalues and eigenvectors, and determine if a matrix is diagonalizable;
• Determine and use orthogonality;
• Use linear algebra to solve basic applied problems;
• Prove elementary statements in linear algebra.

GRADING:

• TESTS: There will be three 50 minute in-class exams during the semester. All of these exams are closed book exams.

• FINAL EXAM: There will be a final exam on all material covered in the course.

• HOMEWORK: There will be by-weekly homework assignments.

ASSESSMENT: 15% Homework
60% Three Exams
25% Comprehensive Final Exam
Grade Scale:

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University dates and deadlines: You should be aware of the important dates and deadlines posted by the Registrar’s Office.

Important note: Announcements made in class are considered addenda to this syllabus. Make sure you stay informed as to the progress of the class.

Honesty: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/vpesa/Dean of Students/default.php.

Accommodation: The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors and Disability Services for Students (DSS). If you think that you may have a disability adversely affecting you academic performance, and you have not already registered with DSS, please contact DSS in Lommassen 154. I will work with you and DSS to provide an appropriate accommodation.