

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)  
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**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=25770>  
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:

$\geq 93\%$	90%	87%	83%	80%	75%	70%	65%	62%	58%	55%	$\leq 55\%$
A	A <sup>-</sup>	B <sup>+</sup>	B	B <sup>-</sup>	C <sup>+</sup>	C	C <sup>-</sup>	D <sup>+</sup>	D	D <sup>-</sup>	F

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](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 your academic performance, and you have not already registered with DSS, please contact DSS in Lom-massen 154. I will work with you and DSS to provide an appropriate accommodation.