

**Math 3130: Introduction to Linear Algebra
Spring 2009**

Class meetings: MWF 1:00-1:50 P.M. in MUEN D144

Instructor:

Assoc. Prof. Jeanne Clelland
MATH 321
492-7083
Jeanne.Clelland@colorado.edu
<http://math.colorado.edu/~jnc/2009Spring/Math3130/Math3130.html>

Office hours: Tues. 10:00 A.M. - 12:00 P.M., or by appointment

Undergraduate Mathematics Resource Center: Assistance is available in MATH 175 for students enrolled in MATH courses Mon.-Thurs., 8:00 A.M. - 6:00 P.M., and Fri. 8:00 A.M. - 2:00 P.M.

Prerequisites: MATH 2400 (Calculus III), or the equivalent

Text: Bretscher, *Linear Algebra with Applications*, 4th ed. (Prentice Hall) 2009.

Course outline: This course will cover basic properties of systems of linear equations, vector spaces, linear independence, dimension, linear transformations, matrices, determinants, eigenvalues, and eigenvectors. This material is covered in Chapters 1-8 of the text.

Grading: Grades will be based on homework (10%), three in-class tests (20% each), and a comprehensive final exam (30%).

Homework: Homework assignments will be due approximately weekly. You are encouraged to work together on homework, although each student must submit an individual write-up. LATE HOMEWORK WILL NOT BE ACCEPTED.

Test and exam dates:

- **Test 1:** Monday, February 16
- **Test 2:** Monday, March 16
- **Test 3:** Friday, April 24
- **Final Exam:** Saturday, May 2, 1:30 - 4:00 P.M.

Friendly advice:

- **Come to class.** I will often say things in class that are not covered in the text, and participating in classroom discussions is an important part of the learning process. (And if you need help outside of class, I will be MUCH more inclined to give it if you have been coming to class regularly.)
- **Read the book.** The text is intended to be read *in addition to* classroom lectures, and it contains many more details and examples than I will be able to cover in class. Take advantage of it!
- **Do the homework.** Not only does it count for a portion of your grade, but this is where most of the learning takes place. You learn math by doing math, not by watching me do math.
- **Come to office hours.** This applies particularly if you have questions about homework or other class material, but feel free to come to office hours even if you don't. This is your opportunity to talk to me one-on-one — or maybe 3- or 4-on-one, but certainly less than 30-on-one!

Other important Dates:

- **January 28 (Wed.):** Last day to drop a course without the instructor's signature, and without being assessed tuition and fees for that course and having a W appear on the transcript for that course (Exception: Students whose only college is Arts & Sciences have until March 20 to drop without approval signatures.)
- **February 25 (Wed.):** Last day to drop a course without petitioning the dean (Exception: Students whose only college is Arts & Sciences have until March 20 to drop without approval signatures)

Accommodations for disabilities: If you qualify for accommodations because of a disability, please submit a letter to me from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, or <http://www.colorado.edu/disabilityservices>.

Religious observances: If you have any course-related conflicts due to religious obligations, please let me know as soon as possible so that accommodations can be made.

Miscellaneous University Rules & Regulations:

- **Honor Code:** All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Additional information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> <http://www.colorado.edu/academics/honorcode/>
- **Classroom behavior policy:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code
- **Sexual harassment policy:** The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>