

MATH 265 –Linear Algebra I
Dr. Boersma
Fall 2010

Goals: Upon successful completion of this course, the student will be well-versed and proficient in the following areas and techniques of linear algebra:

- Systems of linear equations
- Linear independence and dimension
- Linear transformations
- Eigenvalues and eigenvectors

We will cover Sections 1.1 – 1.4, 2.1 - 2.3, 3.1 – 3.3, 3.5, 4.1 – 4.2, and 5.1–5.2.

Office: Bouillon 107E, phone: 963-1395, email boersmas@cwu.edu. Office hours will be announced in class shortly. You may of course drop by anytime. If I'm not busy I'll be glad to talk with you.

**Required
Materials**

1. **Text:** *Linear Algebra: Ideas and Applications*, by Richard C. Penney, 3rd edition. *Note: Barnes and Noble may have very cheap 2nd editions. The 2nd edition appears to be very similar to the 3rd edition.*
2. TI-83/84/85/86 Graphing Calculator

Your Grade: Your final grade in this course will depend on two fifty-minute exams, one final exam, and collected homework.

Exams Two fifty-minute exams will be given in class (200 pts total), thus making attendance mandatory on these dates. Make-up exams will only be given in extreme cases. If you anticipate a conflict, please see me at least one week **before** the date of the exam. The final exam (125 pts) is scheduled for Friday December, 10th, 12:00 – 2:00. This time is scheduled by the registrar's office and cannot be changed! Please make travel plans accordingly.

Collected

Homework

I will periodically assign problems to be handed in and graded. Sometimes these problems will be taken directly from our textbook and other times you may find them a bit more challenging than the textbook problems. In either case, I will be looking for neat, clear, and concise solutions containing complete and eloquent explanations. You should think of these turn-in homework sets as an opportunity for you to really show me your understanding of the material. Unlike exam problems, you should have plenty of time to give these homework problems (and their solutions) careful consideration. Impress me!

Other

Homework There will be **daily** homework assignments from the textbook. It is **your responsibility** to keep up with these assignments. Although most of these problems will not be collected or graded, they will be the basis for all of the exams in the course. Keep up. Do well on these problems and you should do well in the course!

Technology: We will discover how the TI-83 graphing calculator can be used to help with some of the very intricate calculations that arise in linear algebra. I will be assuming that everyone is familiar with the basic arithmetic and graphical operations of the calculator. If this is not the case, you should come by and talk with me about your familiarity with the calculator.

Attendance I will assume that everyone attends every class meeting. If you happen to miss a day, be advised that you are still responsible for any assignments that were given or turned in. Feel free to come by my office to discuss the day's activities that you may have missed.

Final Grades: As mentioned in part above, your final grade will depend on

Collected Homework	100 pts.
Two in-class exams (100 pts each)	200 pts.
Final Exam	<u>125 pts.</u>
TOTAL	425 pts.

While I reserve the right to "curve" final grades as I deem appropriate, your grade will be no lower than:

A :425 – 393	C+:336 – 325
A-: 392 – 380	C :324 – 308
B+:379 – 367	C-:307 – 295
B :366 – 350	D+:294 – 278
B-: 349 – 337	D :277 – 261
	D- : 260 – 248

Students who have special needs or disabilities that may affect their ability to access information and or material presented in this course are encouraged to contact me or Robert Harden, ADA Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related educational accommodations.

DATES TO REMEMBER

Exam 1: October 25
Exam 2: November 23
Final: December 10