Introduction

Welcome to MATH 672! In this course you will be continuing your study of linear algebra and vector spaces that you began during your undergraduate studies. The text for this course is *Linear Algebra Done Right*, 2nd ed., by Axler. The text is required, since you will be assigned both reading and homework problems from the book. In addition, upon request I will put other books on reserve in the Morris Library that may prove helpful for certain sections.

If you have a problem, question about the material, or interesting application you would like me to address in class, please feel free to contact me during my office hours or make an appointment. Extra copies of handouts are available at the Web page listed above.

Please turn off portable phones, pagers, etc. before entering the classroom. You may bring a tape recorder with you to class, if you wish; however, unattended tape recorders will not be permitted. There will be no makeup classes for snow days.

Electronic Communication

The Web page for this course is listed above. There you will find copies of handouts available for downloading, as well as any important announcements (corrections to typographical errors, etc.). Also at the URL

http://www.math.udel.edu/~edwards/download/suggest.html

you will find an anonymous suggestion box.

Particularly important messages regarding the course may also be e-mailed to you directly. In addition, you may send me e-mail with questions regarding the course, homework assignments, etc. For more information on how to use electronic resources, contact the Help Center (x6000).

Assessment

Your grade for the course will be determined in two stages. First your *raw score* will be calculated using the higher of the two algorithms:

1) The homework will count for 15% of your grade, with the remainder split equally between the two exams.
2) The homework will count for 30% of your grade, with the remainder split equally between the two exams.

Then each of the raw scores will be scaled to determine final grades, if necessary.
Exams

There will be a midterm and final exam for the course; the dates are listed on the attached schedule. The midterm exam will be given in class. I have not yet decided on the format for the final exam. Attached to the midterm will be a course evaluation form so that I may receive your suggestions for how the course could be improved. These forms will be seen only by me, so if you have comments that you wish the department to hear, please contact them directly.

When the exams are returned, they will have a numerical score and a letter grade on them. The numerical score is your score for the exam; the letter grade is your grade for the course to that point, including all homework scores.

Homework

The most effective way to succeed in this course is to do all the homework assignments. I select the problems carefully to illustrate the most important topics in the course. Even if you are registered as a listener, I recommend doing the homework, and I will review it.

In most cases, homework will be distributed every Monday during lecture and it will be due the following Monday. (The first homework assignment is attached to this sheet.) The homework will ideally cover material up through the day it is distributed. **ABSOLUTELY NO LATE HOMEWORK WILL BE ACCEPTED!** If you must miss a due date because of University business, it is your responsibility to make sure the homework gets to me **before** the due date. Since mathematics is a subject where the material for one section builds on the section before, it is critical that you keep up to date on the homework: hence the stringent policy. However, to calculate your semester-long homework average, I will drop your two lowest homework scores. Therefore, low scores for assignments where you were pressed for time can be erased as long as you don’t have too many of them.

Though you may not copy directly from another’s paper or use someone else’s ideas as your own, I encourage you to discuss the homework problems with your classmates. Any scientific endeavor is rarely done in a vacuum; therefore it is to your advantage to learn the benefits of collaborating. Model homework solutions will be posted on the Web after the assignment is due. Hopefully these will assist you in learning the material.

Homework assignments should be folded like a book with the following information on the “front cover:”

- Name
- MATH 672—Edwards
- Assignment Number
- Date

You will turn in your assignments this way so that I can put your grade on the inside, thus ensuring your privacy. I will make every effort to ensure that your graded homework is returned in a timely manner. The number of points assigned to each problem will be listed.
Tentative Schedule

Note: The amount of time allotted for each chapter is tentative. (In particular, topics near the end of the schedule may be dropped if the other topics take more than the allotted time.) However, the dates of homework assignments and exams are firm.

September 4–6: chapter 1
  September 4: Homework 1 distributed
week of September 9: chapter 1
week of September 16: chapter 2
  September 16: Homework 1 due; Homework 2 distributed
week of September 23: chapters 2 and 3
  September 23: Homework 2 due; Homework 3 distributed
week of September 30: chapter 3
  September 30: Homework 3 due; Homework 4 distributed
week of October 7: chapters 3 and 5
  October 7: Homework 4 due; Homework 5 distributed
week of October 14: chapter 5
  October 14: Homework 5 due; Homework 6 distributed
  **October 18: Midterm exam**
week of October 21: chapters 5 and 6
week of October 28: chapter 6
  October 28: Homework 6 due; Homework 7 distributed
week of November 4: chapters 6 and 7
  November 4: Homework 7 due; Homework 8 distributed
week of November 11: chapter 7
  November 11: Homework 8 due; Homework 9 distributed
week of November 18: chapters 7 and 8
  November 18: Homework 9 due; Homework 10 distributed
November 25, 27: chapter 8
  November 25: Homework 10 due; Homework 11 distributed
  **November 29: Thanksgiving Recess (no class)**
week of December 2: chapter 8
December 9: chapter 8
  December 9: Homework 11 due; supplemental study material distributed
December 11: course review