Welcome to Analytic Geometry and Calculus C! Since most of you are not mathematics majors, the focus of this course will be on the applications of calculus, rather than the theory behind it (except when explaining the theory will enhance your understanding of the concepts). I will be passing around a sheet today asking each of you what you think your major might be. Then I will try to present examples from those subjects so that you can see how calculus is applied to your area of interest.

The text for this course is *Calculus*, 9th ed., by Thomas and Finney. **The text is required**, since you will be assigned both reading and homework problems from the book. You may also wish to purchase the study guide for the text. In addition, I may also be lecturing from various other sources, so class attendance and participation is necessary for successful mastery of the material.

If you have any questions, you may contact me during my office hours or make an appointment. **Extra copies of handouts are available outside 511 Ewing or at the Web page listed above.**

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.
department machines. Doing so will distract you and others from my presentation of the material. If you wish to surf the Web, please do so at some other location.
Electronic Communication

The Web page for this course is listed on the top of the first page. 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.

Announcements will also be posted to the newsgroup for the course, which is listed above. The newsgroup gives you a chance to collaborate electronically, asking questions of your fellow students, etc. If I find a question being repeatedly asked, I will try to address it in the next class session. Though the group is unmoderated, I will be checking to make sure that answers to homework assignments and other types of inappropriate material aren’t being posted. No anonymous posting is allowed.

Particularly important messages may also be e-mailed to you directly. For more information on how to use electronic resources, contact the Help Center (x6000).

Exams

There will be four exams in the course; the dates are listed on the attached schedule. NO MAKEUP EXAMS WILL BE GIVEN! The first three will be 45 minutes long and will take place during a regular lecture hour. The final exam will be two hours long. Please be prepared to show picture identification in order to enter the examination room. Attached to each examination 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 quiz and homework scores.

Quizzes

Four quizzes will be given during the term in recitation section; their dates are listed on the attached schedule. No makeup quizzes will be given. They will take fifteen minutes each, and you will need to bring your own paper. They will cover any material presented in lecture up to
the week before the quiz. Before computing your quiz average, I will drop your lowest quiz score.

**Recitation Sections**

In addition to the lectures, you are also registered for a recitation section meeting on Tuesday. In these sections the TA may answer any questions you might have about the material covered in lecture that week. The TA can **NOT** address specific questions about any homework problems not already turned in.

**Assessment**

Your grade for the course will be determined in two stages. First your *raw score* will be calculated from your exam scores, with the final counting as the equivalent of two exams. However, if including your homework and/or quiz scores will improve your score, I will let each count for 10% of your grade. Therefore, doing the homework, attending recitation sections, and taking the quizzes *can only help* your grade. (In the past, it has been my experience that the vast majority of students improve their grades significantly by using their homework and quiz scores.) Then each of the raw scores will be scaled to determine final grades.

**Homework**

Homework will be distributed on Thursday during lecture (the first assignment is attached to this introduction), and it will usually be due at the beginning of class the following Wednesday. The homework will cover material up through the Friday after 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 calculus 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 placed on reserve in the library 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:”
You will turn in your assignments this way so that I may 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.

Each homework assignment will consist of ten questions. Of those, some randomly selected problems will not be graded. For these questions, you will receive one point if you attempted the problem. For the problems that will be graded, you may receive up to four points, depending on the completeness and accuracy of your solution.

Obviously, I can assign only a select few homework problems to be turned in. Therefore, I choose ones which, if mastered, show adequate understanding of the material. The examinations will largely be based on the material covered in the homework assignments. However, you are encouraged to try other problems in the book for practice.

**Tentative Schedule**

**Note:** This is only a tentative schedule; there may be deviations from it.

week of September 2: Review of calculus and Maple; section 10.1
   September 2: Homework 1 distributed
**September 7: Labor Day (no lecture)**
   September 9–11: Sections 10.1, 10.2
      September 9: Homework 1 due
      September 10: Homework 2 distributed
week of September 14: Sections 10.2–10.4
   **September 15: Quiz 1** (covers the review and section 10.1)
      September 16: Homework 2 due
      September 17: Homework 3 distributed
week of September 21: Sections 10.4, 10.5, and 9.1
   September 23: Homework 3 due
   September 24: Homework 4 distributed
September 28–30: Sections 9.1, 10.6
   **October 1: Exam I** (covers the review and sections 10.1–10.5)
   October 2: Sections 10.6–11.1
week of October 5: Sections 11.1, 11.3
   October 7: Homework 4 due
   October 8: Homework 5 distributed
week of October 12: Sections 11.3, 11.4, 12.1, 12.2
October 13: Quiz 2 (covers sections 9.1, 10.6–11.1)
October 14: Homework 5 due
October 15: Homework 6 distributed
week of October 19: Sections 12.2–12.4
   October 21: Homework 6 due
   October 22: Homework 7 distributed
October 26: Sections 12.4, 12.5
October 28: Exam II (covers sections 9.1, 10.6–11.1, 11.3, 11.4, 12.1–12.3)
October 29–30: Sections 12.5, 12.7
week of November 2: Sections 12.7–12.9
November 3: Election Day (no recitation)
   November 4: Homework 7 due
   November 5: Homework 8 distributed
week of November 9: Sections 12.9, 13.1–13.3
   November 10: Quiz 3 (covers sections 12.4, 12.5, 12.7, 12.8)
   November 11: Homework 8 due
   November 12: Homework 9 distributed
week of November 16: Sections 13.3, 13.4, 13.6, 14.1
   November 18: Homework 9 due
   November 19: Homework 10 distributed
week of November 23: Sections 14.1, 14.2
   November 25: Homework 10 due; Homework 11 distributed
November 26, 27: Thanksgiving Recess (no lectures)
November 30: Exam III (covers sections 12.4, 12.5, 12.7–12.9, 13.1–13.4, 13.6)
Tentative Schedule (continued)

December 2–4: Sections 14.2–14.4
December 7: Section 14.4
   December 7: Homework 11 due
   **December 8: Quiz 4** (covers sections 14.1–14.4)
December 9: Formal Review Session
   **December 18, 1–3 pm: Final Exam** (covers entire class, but especially sections 14.1–14.4)