

# Math 166 Calculus II

Spring, 2007 - Section F1

MTRF 1:10 - 2:00

Carver 160

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Office Hours: TBA

Course Webpage: <http://www.public.iastate.edu/~mhalver/classes/S07/calc.htm>

Course Content: Integration - Applications And Techniques  
Infinite Sequences And Series, Taylor's Theorem  
The Polar Coordinate System

Grading: Grading will consist of homework, quizzes, 3 exams, as well as a departmental midterm and final.

Homework will be assigned nearly every day, but will not always be collected. When homework is collected, not all problems will necessarily be graded. Homework to be collected will be announced at least 2 days in advance, along with which problems will be graded.

In addition to homework, there may also be several quizzes. The quizzes will count the same as homework, and may be thought of as mini-exams. Quizzes will not occur the same week as a homework assignment is due. There will be a total of at least ten collected homework assignments and quizzes combined. Quizzes will be announced at least 2 days in advance. The worst score among the homework and quizzes will be thrown out.

There will also be three in-class exams throughout the semester. The worst exam score will be thrown out.

Extra credit may be possible. The point totals are as follows:

Homework/Quizzes	200 pts
Exams	300 pts (150 pts each)
Midterm	250 pts
Final	250 pts
Total	1000 pts

Calculator  
Policy:

Calculators are always allowed unless otherwise noted. Most likely all in-class exams will allow calculators. Departmental exams have usually consisted of a part allowing calculators and a part not allowing calculators.

Even though you are allowed to use calculators, you should still know how to do all course work without one, in theory. In other words, any calculation you may be required to do, you should know all steps involved as well as how to carry out all calculations for each step. In many applications that we will discuss, actually doing such calculations by hand will be unfeasible.

Homework  
Policy:

Homework is due by 4:00 on the due date. Late work will not be accepted. Homework may be turned in at the end of class, to me in my office, or in my mailbox. Please do not leave homework in my office if I am not there. I can not promise that I will receive it if I do not take it personally. I am not responsible for lost papers if they are left in my office when I am not present. Homework turned in to my mailbox must be given to a member of the office staff to be placed in my mailbox. Please make sure that the office staff member who takes it initials it and records the date and time. Homework without this will be considered late. It is your responsibility to make sure this is recorded.

You may work together on homework. If you choose to work together, you may turn in one paper for the group. Make sure that all names are on the paper that you turn in. If you are working in a group, make sure that you understand the solutions to all problems; group work should help your understanding and performance, not hurt it.

- Course Policies:
1. All work must be done in pencil. Anything else will result in lost points.
  2. Missed Quizzes and homework cannot be made up. Try not to miss either one.
  3. Exams may be made up. Makeups should be arranged at least one week in advance and requests must be made in writing. Sending a request by email is acceptable. If circumstances prevent prior notification a makeup should be arranged as soon as possible. In all cases, verification of the reason for missing the exam is required.
  4. Please turn off or silence all cell phones *before* entering the classroom.
  5. All items on this syllabus are subject to change.
  6. Please address any special needs or special accommodations with me at the beginning of the semester or as soon as you become aware of your needs. Those seeking accommodations based on disabilities should obtain a Student Academic Accommodation Request (SAAR) form from the Disability Resources (DR) office (515-294-6624). DR is located on the main floor of the Student Services Building, Room 1076.

- Tips:
1. Read the sections to be covered before class.
  2. Attempt to memorize all important theorems. If there is an entire section over a particular theorem, it is probably an important one.
  3. Do all homework problems, even if they will not be collected.
  4. Ask Questions.
  5. See me during office hours.
  6. Attend Class!!

### Semester Outline

Unit 1	Applications of the Integral (Chapter 5, 5.7 only if time permits) Techniques of Integration (Chapter 7) <b>Exam 1</b> over Unit 1 in mid February
Unit 2	Indeterminate Forms, Improper Integrals (Chapter 8) Sequences and Series (Chapter 9) <b>Exam 2</b> over Unit 2 in early April
Unit 3	Parametric Curves and Polar Coordinates (Chapter 10 starting with 10.4) Other topics as time permits <b>Exam 3</b> over Unit 3 in late April
	Note: rough exam dates are tentative and may be subject to change