

Text We will be using *Calculus* (2nd edition) by G.L. Bradley and K.J. Smith. We will cover material from Chapters 5 through 8, and 15 — see the attached **tentative** schedule for the exact sections covered. The *Student Survival & Solutions Manual* is available as an optional text.

Home Page Start at <http://buzzard.ups.edu/courses.html> to locate the WWW page for this course.

Office Hours My office is Thompson 321G; the telephone number is 879-3564. Making appointments or simple, non-mathematical questions can be handled via electronic mail — my address is beezer@ups.edu. Office hours will be 10:00–11:50 on Monday, Wednesday and Friday, and 9:30–10:50 on Tuesday. I will always be available during these times on a first-come, first-served basis. If these times are not convenient, please do not hesitate to make an appointment with me for another time. You are also welcome to drop by my office without an appointment at any time that I am in. Office hours are your opportunity to receive extra help or clarification on material from class, or to discuss any other aspect of the course.

Calculators This course requires the use of a graphing calculator. It should be capable of displaying the graphs of functions, solving equations and differentiating and integrating numerically. I highly recommend the Texas Instruments TI-86, which is what I will be using. These are available at the bookstore, though you must ask for them at the checkout counter. It is not required that you use this exact model, but whatever you use should have the capabilities listed above.

Homework Homework will be assigned at the conclusion of each section, it will be due at the start of the next class session and will not be accepted late. Of course, you are not limited to working *just* these assigned problems. On the day homework is handed up there will be some time at the start of class for discussion. It is your responsibility to be certain that you are learning from the homework exercises. The best ways to do this are to work the problems diligently when assigned and to participate in the classroom discussion. If at this point you are still unsure about a problem, then a visit to my office is in order. Making a consistent effort outside of the classroom is the easiest way to do well in this course.

Mathematics not only demands straight thinking, it grants the student the satisfaction of knowing when he is thinking straight. — D. Jackson

Mathematics is not a spectator sport. — Anonymous

I hear, I forget.

I see, I remember.

I do, I understand.

— Chinese Proverb

Quizzes There will be six one-hour quizzes — see the attached sheet for tentative dates. The lowest of your six quiz scores will be dropped. The comprehensive final exam will be given at 4 P.M. on Tuesday, December 17. The final exam cannot be given at any other time, so be certain that you do not make any travel plans that conflict, and also be aware that I will allow you to work longer on the final exam than just the two-hour scheduled block of time.

Grades Grades will be based on the following breakdown: Quizzes — 75%; Final — 25%. Homework, attendance and improvement will be considered for borderline grades. Scores will be posted on the World Wide Web at <http://buzzard.ups.edu/courses.html>. A reminder about withdrawals — a Withdrawal Passing grade (W) can only be given during the third or fourth weeks of the semester, after that time (barring unusual circumstances), the appropriate grade is a Withdrawal Failing (WF), *even if your work has been of passing quality*. See the attached schedule for the last day to drop with an automatic ‘W’ and please read *The Logger* about these often misunderstood grades.

Attendance Daily attendance is required and expected, and is a pretty good idea.

Purpose One of the goals of your college education is to progress to becoming an independent scholar. To this end, you will be given a great deal of freedom in how you choose to learn calculus. Of course, with freedom comes responsibility. Read the book before the lectures, work the exercises diligently, tidy up your class notes each evening, and ask questions. Arriving late to class, or having conversations with others during class, not only disrupts your peers, but tells me you are not serious about your education. I will not routinely check attendance, but our class is small enough that I will notice when you are not here, and again this will be another way that you signal me about your commitment to the endeavor.

Calculus is one of the most amazing intellectual developments of the past several hundred years and is responsible in large part for many of the advances in science and engineering that we take for granted today. Your commitment to this course will be rewarded, and your inattention will be a waste of your tuition and your time.

Homework Exercises

Section	Page	Exercises
5.1	327	3, 11, 17, 21, 25, 28, 30, 32, 36, 38, 45
5.2	335	13, 15, 18, 20, 24, 28-33
5.3	348	3, 6, 11, 14, 19, 22, 26, 35, 39
5.4	355	6, 11, 17, 21, 29, 34, 37, 46, 53, 57
5.5	362	9, 18, 23, 28, 35, 41, 48, 57, 59
5.7	381	1, 5, 20, 27, 34, 37
5.8	388	1, 4, 7, 14, 19, 28, 34
5.9	395	2, 3, 5
6.1	413	3, 4, 6, 10, 18, 32, 39
6.2	423	3, 9, 14, 21, 27, 32, 33, 40, 41
6.3	431	3, 11, 16, 19, 24, 29, 33, 35
6.4	439	3, 9, 13, 16, 18, 23, 25, 28
6.5	451	5, 7, 11, 45; 26, 29, 31, 32, 53
7.1	473	6, 12, 13, 15, 21, 32, 33, 40, 43, 55
7.2	480	3, 4, 8, 10, 13, 15, 21, 27, 35
7.3	487	7, 13, 18, 26, 31; 34, 38, 42, 45, 47
7.4	497	2, 7, 15, 21, 33, 60
7.7	524	5, 10, 15, 20, 25, 30, 35, 40, 50
8.1	550	3, 7, 11, 16, 23, 26, 27, 37, 41, 44, 49
8.2	558	24, 29, 37; 5, 7, 11, 19, 21, 49, 56
8.3	567	5, 7, 12, 17, 23, 29, 33, 34, 39, 40, 41
8.4	573	1, 2, 4, 5, 8, 14, 20, 26, 32, 38, 49, 50, 53
8.5	581	3, 11, 14, 17, 27, 33, 36, 37, 45, 48, 54
8.6	590	4, 6, 10, 20, 22, 30, 39, 40, 51
8.7	600	3, 6, 9, 16, 22, 27, 35, 39
8.8	616	5, 8, 12, 20, 25, 35, 39, 40, 50, 53
5.6	374	3, 6, 9, 12, 15, 17, 23, 27, 52, 60
7.6	512	1, 5, 8, 23
15.1	1038	TBA

Tentative Daily Schedule

(Revised: September 3, 2002)

Monday	Tuesday	Wednesday	Friday
Sep 2 Labor Day	Sep 3 Syllabus Section 5.1	Sep 4 Section 5.1/5.2	Sep 6 Section 5.2
Sep 9 Section 5.3	Sep 10 Section 5.4	Sep 11 Section 5.4	Sep 13 Problem Session
Sep 16 Quiz #1	Sep 17 Section 5.5	Sep 18 Section 5.7	Sep 20 Section 5.8
Sep 23 Section 5.8	Sep 24 Section 5.9	Sep 25 Problem Session	Sep 27 Quiz #2
Sep 30 Section 6.1	Oct 1 Section 6.2	Oct 2 Section 6.2/6.3	Oct 4 Section 6.3
Oct 7 Problem Session	Oct 8 Section 6.4	Oct 9 Section 6.5	Oct 11 Section 6.5
Oct 14 Problem Session	Oct 15 Quiz #3	Oct 16 Section 7.1	Oct 18 Section 7.2

Mid-Term

Monday	Tuesday	Wednesday	Friday
Oct 21 Fall Break	Oct 22 Section 7.3	Oct 23 Section 7.3	Oct 25 Section 7.4
Oct 28 Section 7.4	Oct 29 Section 7.7	Oct 30 Problem Session	Nov 1 Quiz #4
Nov 4 Section 8.1	Nov 5 Section 8.1	Nov 6 Section 8.2	Nov 8 Section 8.2
Nov 11 Section 8.3	Nov 12 Section 8.4	Nov 13 Section 8.4/8.5	Nov 15 Section 8.5
Nov 18 Problem Session	Nov 19 Quiz #5	Nov 20 Section 8.6	Nov 22 Section 8.7
Nov 25 Section 8.7	Nov 26 Section 8.8	Nov 27 Section 8.8	Nov 29 Thanksgiving
Dec 2 Problem Session	Dec 3 Quiz #6	Dec 4 Section 5.6	Dec 6 Section 7.6
Dec 9 Section 7.6/15.1	Dec 10 Section 15.1	Dec 11 Housekeeping	

Final Examinations
Tuesday, December 17 at 4 P.M.