

Text We will be using *Calculus* (2nd edition) by G.L. Bradley and K.J. Smith. We will cover material from Chapters 1 through 4 — 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 9–10 every day we have class scheduled. 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 in the morning. 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. These will usually be given on Mondays – see the attached *tentative* schedule for exact dates. These will typically cover material presented in class through the preceding Thursday. The lowest of your six quiz scores will be dropped. Each quiz will cover approximately four sections of the text.

Grades Grades will be based on your five best quiz scores, weighted evenly. 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 early portion 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*. Please read *The Logger* about these often misunderstood grades.

Attendance Daily attendance is required and expected, and a very good idea, especially during summer school.

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.

Tentative Daily Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
May 20 Syllabus Section 1.3	May 21 Section 1.4 Section 2.1	May 22 Section 2.2	May 23 Section 2.3	May 24 Section 2.4 Problems
May 27 Memorial Day	May 28 Section 2.4 Quiz #1	May 29 Section 1.2	May 30 Section 3.1	May 31 Section 3.2 Problems
June 3 Section 3.2 Quiz #2	June 4 Section 1.6	June 5 Section 3.3	June 6 Section 3.4	June 7 Section 3.5 Problems
June 10 Section 3.5 Quiz #3	June 11 Section 1.5 Section 3.6	June 12 Section 3.7	June 13 Section 3.8	June 14 Section 4.1 Problems
June 17 Section 4.1 Quiz #4	June 18 Section 4.2	June 19 Section 4.3	June 20 Section 4.4	June 21 Section 4.5 Problems
June 24 Section 4.5 Quiz #5	June 25 Section 4.6	June 26 Section 4.7	June 27 Chapter 5 Introduction	June 28 Problems Quiz# 6

Homework Exercises

Section	Page	Exercises
1.3	32	6, 10, 11, 17, 31, 38, 43, 48, 53
1.4	41	5, 6, 19, 20, 33, 43, 50, 52
2.1	81	5, 9, 22, 29, 47
2.2	95	6, 9, 13, 24, 28, 29, 30, 37, 42, 58
2.3	105	3, 9, 13, 18, 30, 36, 40, 47, 59
2.4	115	2, 6, 9, 13, 19, 25, 28, 39, 47, 56b
1.2	21	6, 15, 22, 29, 30, 32, 34, 46, 47, 59
3.1	139	3, 8, 13, 19, 28, 33, 35, 42, 43, 46, 53
3.2	150	2, 5-26, 28, 31, 33, 36, 41, 44, 55
1.6	65	2, 14, 17, 21, 23, 24, 35, 39, 61, 62, 69
3.3	158	1-32, 37, 40, 43, 49, 56
3.4	166	13, 15, 21, 25, 29, 36, 44
3.5	174	5, 6, 16, 18, 23, 26, 29, 35, 41, 45, 46, 47
1.5	52	3, 5, 13, 20, 26, 29, 35, 37, 47a, 50
3.6	186	5, 11, 17, 19, 31, 34, 41, 45, 47, 51
3.7	194	15, 18, 25, 27, 31, 37, 39
3.8	206	1, 7, 11, 21, 28, 31, 46, 47ab
4.1	226	3, 6, 8, 17, 20, 23, 28, 30, 31, 40, 53
4.2	233	5, 18, 23, 29, 32, 33, 42
4.3	244	3, 9, 12, 15, 22, 27, 32, 42, 49
4.4	256	6, 9, 14, 19, 23, 40, 41, 45
4.5	270	7, 10, 11, 13, 18, 21, 22, 25, 29, 30
4.6	280	8, 13, 16, 18, 26, 36
4.7	295	3, 6, 7, 13, 15, 23