Text We will be using *University Calculus, (First Edition)*, by Hass, Weir & Thomas as our primary textbook. The bookstore is also stocking an optional text, *Just-in-time Algebra and Trig for Early Transcendentals* by Mueller for those needing a review of high school algebra or trigonometry.

I will also be referencing a new open-content (i.e. free) text, *Whitman Calculus*, by David Guichard of Whitman College. Look for a link on the course web page.

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

Office Hours My office is in Thompson 303; 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 are 11:00–11:50 on Monday and Friday, and 11:00-12:20 on Tuesday and Thursday. You may make an appointment for other times, or just drop by my office. Office hours are your opportunity to receive extra help or clarification on material from class, or to discuss any other aspect of the course.

Homework Problems will be assigned from each section covered, and collected at the start of the next class session. Of course, you are not limited to working *just* these problems.

It is your responsibility to be certain that you are learning from these exercises. The best ways to do this are to work the problems diligently when assigned and to participate in the classroom discussions. If you are 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 [or she] 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

> An education is not received. It is achieved.
> — Anonymous

Calculators You may use a calculator as you work homework problems, however exams will be designed so as to not require a calculator (and therefore will not be allowed). At a few points in the course, a graphing calculator or a laptop for connecting to Sage will be useful.

Exams There will be six 50-minute timed exams — they are all listed on the *tentative* schedule. The lowest of your six exam scores will be dropped. The comprehensive final exam will be given on Friday, December 18 at Noon. The final exam cannot be given at any other time 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. In other words, plan your travel arrangements accordingly.

Grades Grades will be based on the following breakdown: Exams — 70%; Final — 30%. Homework, attendance and improvement will be considered for borderline grades. Scores will be posted anonymously at `http://buzzard.ups.edu/courses.html`.

Reminders Three reminders about university policies contained in the *Academic Handbook*. These are described thoroughly online, or a printed copy may be requested from the Registrar's Office (basement of Jones Hall).

"Regular class attendance is expected of all students. When non-attendance is in the instructors judgment excessive, the instructor may levy a grade penalty or may direct the Registrar to drop the student from the course."
See `http://www.pugetsound.edu/x4741.xml#registrationattendance`.

Withdrawal grades are often misunderstood. A Withdrawal grade (W) can only be given during the third through sixth 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'.
See `http://www.pugetsound.edu/x4727.xml#withdrawal`.

All of your graded work is expected to be entirely your own work. Anything to the contrary is a violation of the university's comprehensive policy on Academic Honesty (cheating and plagiarism). Discovered incidents will be handled strictly, in accordance with this policy. Penalties can include failing the course and range up to being expelled from the university.
See `http://www.pugetsound.edu/x4718.xml`.

Attendance Daily attendance is required, expected, and overall 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. 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	Thursday	Friday
Aug 31 Syllabus Preview	Sep 1 Section 1.1 Section 1.2	Sep 3 Section 2.1	Sep 4 Section 2.2
Sep 7 Labor Day Holiday	Sep 8 Section 2.6	Sep 10 Section 2.7	Sep 11 Problem Session
Sep 14 Exam #1	Sep 15 Section 1.4	Sep 17 Section 2.3	Sep 18 Section 3.1
Sep 21 Section 3.2	Sep 22 Section 3.3	Sep 24 Section 1.3	Sep 25 Section 3.4
Sep 28 Section 3.4 Section 3.5	Sep 29 Section 3.5	Oct 1 No class	Oct 2 Problem Session
Oct 5 Exam #2	Oct 6 Section 1.5	Oct 8 Section 3.6	Oct 9 Section 3.7
Oct 12 Section 3.8 Last day to drop	Oct 13 Section 3.9	Oct 15 Section 3.10	Oct 16 Section 3.11

Midterm

Monday	Tuesday	Thursday	Friday
Oct 19 Fall Break	Oct 20 Fall Break	Oct 22 Problem Session	Oct 23 Exam #3
Oct 26 Section 2.4	Oct 27 Section 2.5	Oct 29 Section 4.1	Oct 30 Section 4.2
Nov 2 Section 4.3	Nov 3 Section 4.3 Section 4.4	Nov 5 Section 4.4	Nov 6 Problem Session
Nov 9 Exam #4	Nov 10 No class	Nov 12 Section 4.5	Nov 13 Section 4.7
Nov 16 Section 4.6	Nov 17 Section 4.8	Nov 19 Problem Session	Nov 20 Exam #5
Nov 23 Section 5.1	Nov 24 Section 5.1 Section 5.2	Nov 26 Thanksgiving	Nov 27 Thanksgiving
Nov 30 Section 5.2	Dec 1 Section 5.3	Dec 3 Section 5.4	Dec 4 Problem Session
Dec 7 Exam #6	Dec 8 Housekeeping		

Final Examination

Friday, December 18 at Noon

Homework Exercises (Preliminary)

Section	Page	Exercises
1.1	11	5, 15, 20, 55, 58
1.2	20	10, 17, 21, 22, 56, 57
2.1	61	1-4, 7, 9, 11, 15, 17
2.2	71	71, 78, 79, 3, 4, 14, 20, 28, 50, 61, 65
2.6	113	5-10, 15, 18, 20, 35, 36, 41, 46, 47
2.7	118	5, 8, 9, 13, 18, 28, 29
1.4	35	2, 9, 25, 28, 29, 30, 31, 33, 34
2.3	80	7, 10, 15, 16, 25, 26, 37, 38
3.1	132	1, 4, 9, 15, 23, 27-30, 33, 39, 40
3.2	144	1, 3, 7,...,46 (by 3's), 50, 51, 54
3.3	153	7, 10, 13, 15, 17, 23, 24, 28
1.3	28	4, 6, 9, 13, 14, 25, 33, 35, 39, 41, 60ab
3.4	162	1-29 odd, 31, 36, 41, 48, 49
3.5	173	2, 5, 11, 16, 19, 24-72 by 3's, 78, 109, 110
1.5	47	10, 16, 25, 28, 31, 45, 51, 52
3.6	181	1-13 odd, 21, 24, 28, 39, 44
3.7	192	13-40 by 3's, 51, 52, 57, 61, 67-88 by 3's
3.8	199	21 - 41 odd, 48, 65
3.9	205	13, 14, 16, 17, 19, 24, 33
3.10	218	5, 11, 12, 17, 27, 31, 40, 43, 45, 48, 54
3.11	225	2, 8, 11b, 13-35 odd, 45
2.4	94	3, 6, 9, 22, 29, 47, 55, 57
2.5	102	4, 8, 17, 21, 30, 31, 36, 37, 40, 41, 61
4.1	243	1, 3, 5, 7, 9, 17, 18, 19, 20, 29, 30, 31, 39, 47, 57, 58
4.2	251	1, 3, 5, 23, 24, 29, 48, 53, 55
4.3	258	1, 3, 5, 7, 11, 19, 29, 32, 37, 43
4.4	267	1, 3, 13, 15, 25, 27, 29, 33, 35, 42
4.5	276	8, 11, 15, 20, 22, 25
4.7	294	2, 3, 6, 10, 18
4.6	289	4, 5, 13, 18, 21, 29, 37, 46, 58, 66
4.8	302	27-69 by 3's, 92, 93, 119
5.1	322	2, 3, 6, 10, 11
5.2	331	7, 8, 13, 14, 19, 36, 37
5.3	341	9, 10, 15, 16, 17, 18, 39, 42, 45, 47, 59
5.4	345	3-33 by 3's, 41, 42, 52, 53