Advanced Multivariable Calculus I

Math 324 D - Summer 2015

Instructor: Gabriel Dorfsman-Hopkins

Office: Padelford Hall C-008-G

Email: gdh2@math.washington.edu

Website: `www.math.washington.edu/~gdh2/m324s15`

Lectures: MWF 1:10-2:10, AND 010

Office Hours: The tentative plan is to have office hours MWF 12:30-1:10 in AND 010, right before class, as well as a single 1 hour session on Thursday afternoon. If the available times don't work for you, send me an email and we can make an appointment.

Textbook: The required text is the *Calculus: Early Transcendentals*, 7th edition, by Stewart. The University Book Store sells a custom text, *Multivariable Calculus*, which contains all of the chapters we will need for this course. If you have the full 7th edition of this book, that will also work. You need one or the other of these, not both.

WebAssign: All homework for this course is done online using the online grading service WebAssign. You will need to purchase an access code for WebAssign. The University of Washington offers a discount on purchasing WebAssign access for the textbook we use in this course; you can find it on the following website: http://www.cengagebrain.com/micro/uwmathcalc.

Grades: Homework: 15%, Quizzes: 20%, Midterm: 25%, Final (two parts): 20% per part. If you get at least 95% overall, you will receive a 4.0. If you get at least 70% overall, you will receive at least a 2.0. I may adjust this scale, but your grade will be at least as high as the above scale indicates.

Homework: Homework will be accessed, turned in, and graded online using WebAssign. Homeworks will be due at 11pm every Thursday, beginning the first week of class. Thus, the first homework is due *Thursday, June 25*, and future due dates will be listed on WebAssign as homework is assigned. Homework will be visible 2 weeks before the due date. Extensions will only be considered if a reason is given, and no more than one extension will be given unless exceptional circumstances occur (exceptional circumstances are the same as for a missed midterm, see that section below). Do not use the WebAssign interface to request an extension email me directly.

Quizzes: There will be 4 quizzes during the quarter, each one 10-20 minutes long, and each will be graded out of 10 points. The quizzes will focus on the more technical and computational aspects of the course. For the specific dates, see the schedule below *The first quiz will be at the end of the first week of class.*

Exams: One midterm will be given, on Monday, July 20. The final exam will be given in two parts, as though they were two separate exams (each day will contain a different set of problems). They will occur during the final two days of class, on Wednesday, August 19 and Friday August 21.

Notesheet for tests: A single handwritten $8.5'' \times 11''$ or smaller sheet of notes is allowed during exams. You may write on both sides. You may not print or photocopy any part of a notesheet.

Calculators for tests: Graphing calculators are not allowed on exams or quizzes. Non-graphing scientific calculators are allowed. See me before the first quiz if you are not certain if your calculator is acceptable.

I will write exams so it is possible to do them without a calculator, although you may find some of the computations easier with a calculator. All your work on exams should be left in exact form. This means that expressions such as $\sin 1$ or $\sqrt{3}$ should be left as-is and should not be given as a decimal approximation.

Quiz or Exam absence: If you miss a midterm or quizdue to some unavoidable, sudden event (such as a sudden illness, a familye emergency, a traffic accident, etc..) you should contact me as soon as possible. If you cannot take a midterm due to a legitimate pre-existing conflict (for example, a religious observence) you must contact me well in advance to make alternative arrangements.

You must petition in advance to take a make-up final. Petition forms are available in the Math Advising Office, Padelfor Hall C-36. If you miss the final without advance notice due to a sudden event you cannot make it up. You will not be allowed to take the final early.

*****IF YOU HAVE PURCHASED PLANE TICKETS TO GO HOME FOR BREAK CHECK THE DATES NOW! IF IT IS BEFORE THE FINAL ON THE LAST DAY OF CLASS YOU MUST CHANGE IT*****

Schedule: Below is a tentative schedule for what sections we will cover during the quarter. The quizzes may slightly change depending on when we cover the relevant skills, but the midterm and final dates are set.

Date	Sections Covered	
Week 1		
6/22	15.1, 15.2, 15.3,	
6/24	15.4, 15.5	
6/26	15.5, 15.7	**QUIZ # 1**
Week 2		
6-29	15.7	
7-1	15.8, 15.9	
7-3		**NO CLASS**
Week 3		
7-6	15.10	
7-8	15.10, 15.6	
7-10	15.6, 14.5	**QUIZ #2**
Week 4		
7-13	14.5, 14.6	
7-15	16.2	
7-17	16.1	
Week 5		
7-20		**MIDTERM**
7-22	16.3	
7-24	16.4	

Week 6		
7-27	16.5	
7-29	16.6	
7-31	16.6, 16.7	**QUIZ #3**
Week 7		
8-3	16.7	
8-5	16.8	
8-7	16.8, 16.9	
Week 8		
8-10	16.9	**QUIZ #4**
8-12	Differential Forms	
8-14	Differential Forms	
Week 9		
8-17	Final Review	
8-19		**FINAL PART 1**
8-21		**FINAL PART 2**

Disability Services Office: The University of Washington is committed to providing access, equal opportunity, and reasonable accomodation in its services, programs, activities, education, and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, or dso@u.washington.edu.