Course Outline, MATH 124 D and E, Winter 2016

Instructor: Prof. Ioana Dumitriu
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TAs: DA and DB, Yizhe Zhu, PDL C-8L, yizhezhu@uw.edu
     DC and DD, Rebecca Hoberg, PDL C-114, rahoberg@uw.edu
     EA and EB, Max Goering, PDL C-406, mgoering@uw.edu
     EC and ED, Harishchandra Ramadas, PDL C-18, ramadas@uw.edu

Office Hours: W, 2:30-3:30pm, PDL C-336
             Thu, 1-2:30pm, Math Study Center (CMU B-014)

Reading Material: Calculus I, vol 1, by James Stewart
Get volume 1 if you do not intend to go beyond Math 125; else get both volumes.
Available at the Bookstore.

Homework Code: WebAssign access code. Comes bundled with the book, if you buy it new
from the Bookstore, else visit WebAssign.net to buy standalone code.

Course Websites: http://www.math.washington.edu/~m124/
                 (Math. Dept. website for Math 124; contains
                  worksheets and supplementary reading materials)
                 (specific to 124D and 124E)

Syllabus: We will follow the Syllabus posted on the Math. Dept. website for Math 124 (see above),
as closely as possible.

Grades: Based on homework, worksheets, quizzes, midterms and final, proportionally as follows:

  WORKSHEETS: 5%, HOMEWORK: 15%, QUizzes: 15%, 2 MIDTERMS: 15% each, FINAL: 35%

Homework: For submission and grading of homework, we use WebAssign (go to
http://www.webassign.net/washington/login.html and log in using your UW NetID). For more
information, read the “Homework” section of the class website, as well as the homework-related
information on the departmental Math 124 website.

Homework, in modules, will be due in WebAssign every Friday at 11:59pm, with the exception
of the final week, when the deadline will be on Wednesday at 11:59pm. All weekly homework
(regardless of how many modules it covers) has equal weight in calculating the final percentages,
and the lowest weekly homework score will be dropped.

You will notice that each homework contains problems from the book, and most also contain
UW-specific Calculus problems. The latter will be longer and harder; plan accordingly.
Quiz sections: On Tuesdays and Thursdays you will meet with your TA in a smaller group. Take the opportunity to ask questions and get help. Each Tuesday you will have an 80-minute section covering homework questions and a worksheet, while during the Thursday 50-minute section you will sometimes be taking a 15-minute quiz, and then regularly asking questions / discussing problems.

Worksheets: There will be an in-depth worksheet in your Quiz section most Tuesdays (but not on midterm and final weeks). They will be part of your grade. We may skip or reschedule the Week 4 worksheet. In general, it is your responsibility to print worksheets from the departmental website and bring them with you to class.

Quizzes: There will be a 15-minute quiz on weeks 2, 3, 4, 6, and 7, Thursday in the Quiz section. They will cover the material up to date, and will be similar to the homework problems. The quiz will be closed-book. The TAs will grade them and return them to you the next week. No calculators will be allowed or needed. The lowest quiz score will be dropped. There will be NO MAKE-UP QUizzes.

Midterms and Final: There will be two Midterms and one Final exam, the dates being 02/02, 02/23, respectively 03/12. The Midterms will be administered on Tuesdays, in Quiz section. They are meant to take 50 minutes, but you can use the whole 80 minutes. The Final will be administered on the Saturday after the last day of class (this is NOT the date given in the University exam schedule), between 1:30pm-4:20pm, location TBA.

You must bring a Photo ID to all exams. You will be allowed one double-sided, handwritten 8.5 × 11 sheet of notes. Only Ti-30x IIS Calculators will be allowed. THERE ARE NO MAKE-UP EXAMS. If you have a compelling and well-documented reason for missing a test, speak to the Instructor about it.

What this course is about: This is an introduction to differential calculus, to functions and derivatives, and to limits and continuity. There are two aspects to it: one is the calculus material itself, and the other is a focus on setting up and solving multi-step problems. This course is intended for students who will be using calculus in subsequent courses and throughout their careers. It is intended to be considerably more challenging and in-depth than most high-school calculus courses. Make sure you allocate plenty of time for doing homework and studying for the exams.

Syllabus and homework due dates for the next couple of weeks. Winter quarter is short; what that means is that we don’t have time for a review of Precalculus! Do you best to refresh your memory by looking over Secs. 1.2-1.6 of Stewart’s book. During the first week we will study parametric equations (10.1 AND supplementary reading from the departmental website), tangents and velocities, limits (2.1, 2.2); then, during the second week, we will move on to calculating limits, continuity, and asymptotes (2.3, 2.5, 2.6). Note the very fast pace.

The first batch of homework is due in WebAssign on Friday, January 8, at 11:59pm. The second batch—on Friday, January 16, at 11:59pm. The first Quiz will be on Thursday, January 14.