

## MATH 124D: Calculus with Analytic Geometry I

### COURSE INFORMATION (Autumn 2019)

**Instructor:** Professor Zhen-Qing Chen (Office: Padelford C-341; Tel: 543-1907.)  
Email: zqchen@uw.edu;

**Office hours:** Wednesdays: 3:00-3:50 pm. at Math Study Center (CMU B14);  
Fridays 9:30-10:20 am. at Padelford C-341.

**Lectures:** MWF: 11:30 am.-12:20 pm. at **ECE 105**

#### Teaching Assistants:

**DA & DB:** Ryan E. Bushling (Email: reb28@uw.edu);  
Office hours: Mondays 10:00 AM - 11:00 AM and Thursdays 2:30 PM - 3:30 PM at the Math Study Center.

**DC & DD:** Helena Liu (Email: hyliau24@uw.edu);  
Office hours: Mondays: 5-6 pm and Tuesdays 9:30-10:30 am at Math Study Center (CMU B14).

**DE & DF:** Erin Angelini (Email: eang@uw.edu)  
Office hours: Tuesdays 2:30-3:30pm and Fridays 12:30-1:30pm in the Math Study Center (CMU B14).

#### Quiz and Discussion Sections:

**DA:** Tu: 11:30-12:50 at **MAR 168**; TH: 12:30-1:20 pm. at **LOW 219**.

**DB:** Tu: 1-2:20 pm. at **MAR 168**; TH: 1:30-12:20 at **LOW 219**.

**DC:** Tu: 11:30-12:50 at **BLD 286**; TH: 12:30-1:20 pm. at **BLD 392**.

**DD:** Tu: 1-2:20 at **BLD 286**; TH: 1:30-2:20 pm. at **BLD 392**.

**DE:** Tu: 11:30-12:50 at **BLD 392**; TH: 12:30-1:20 at **THO 211**.

**DF:** Tu: 1-2:20 at **BLD 392**; TH: 1:30- 2:20 pm. at **THO 211**.

**The Course:** This course is an introduction to differential calculus for functions of a single variable. Emphasis will be placed on applications and problem solving using the tools of calculus. If you want a good grade in this class, you should expect to spend at least 12 hours a week on homework.

**Text:** The textbook for the course is “Calculus, 8th Edition, Early Transcendentals” by Stewart. An electronic version is included with your purchase of a WebAssign access code, so a paper copy is not required (Note: There is no way to buy only the access code, without the ebook.) However, we do recommend that you read the textbook, and a paper copy will make that easier.

**Webassign:** Homework will be online using WebAssign. You will need a WebAssign access code. You can purchase the access code (which automatically includes the ebook – but not the paper textbook) either directly from the publisher at <https://math.washington.edu/webassign>, or from the University Bookstore. See <https://sites.math.washington.edu/~m124/> for more details.

**Math 124 Course Website:** <https://sites.math.washington.edu/~m124/>

This is the Math Departmental website for Math 124. Links to WebAssign for the homework, week-by-week descriptions of the course. worksheets, and exams, and other materials are posted on this website. You should read “A note to the student”.

**Instructor’s Course Webpage:** <http://sites.math.washington.edu/~zchen/M124.html>

You should check it regularly during the quarter, as some information may only appear online. This website also has a link to the math department Math 125 web page,

**Prerequisite:** either a minimum grade of 2.5 in MATH 120, a score of 154-163 on the MPT-AS placement test, or score of 2 on AP test.

**Homework:** Homework assignments will be assigned and collected via Webassign. Please log into webassign this week and add yourself to the course roster via the link:

<https://www.webassign.net/washington/login.html>

You should plan to complete all assignments **at least two days before they are officially due!** The due date is just the last time you can submit answer. A good student will always be done with the vast majority of the assignments well before the due dates. After the due date, answers and full solutions become visible and you should definitely go back and review them. **No homework extensions will**

**be granted for any reason.** If you have an emergency the day the homework is due (internet down, sickness, family emergency, etc), you will NOT get an extension.

In order to account for any small issues of you forgetting a problem or incorrectly clicking on a multiple choice, at the end of the terms I will round up everyone's total homework score by 5% (but no one gets a homework grade above 100%).

**Worksheets:** There will be an in-depth worksheet in quiz section each Tuesday (except in midterm weeks). The worksheets are an integral part of the course. Some of them lay the groundwork for the lectures, some of them explore topics in greater detail than in lecture, and some of them give you practice on basic techniques. On most of Tuesdays, you will be doing a worksheet in your quiz session. (Please bring a copy of the relevant worksheet to quiz session.) You will get full credit for each worksheet, regardless of whether you get the right answers, if you show up and make a good effort. Please **print the worksheet** for each week and **bring it with you** to quiz section on TUESDAYS. Note that you must do the worksheet in quiz section: don't show up at your quiz section with a completed worksheet and expect to get credit for it.

**Calculator Policy:** There is a required calculator for Math 124. It is the Texas Instruments TI-30X IIS, which is available at the UW Bookstore for \$14.95.

**TA Sections:** On Tuesdays and Thursdays you will meet with a Teaching Assistant in a smaller group. This gives you a chance to get more of your questions answered. Tuesday's quiz section will be 80 minutes long so that, in addition to getting help with your homework, there will be time for a worksheet that you can work on while the TA circulates and answers questions.

**Exams:** There will be 2 midterm exams during the quarter, given in Tuesday's Quiz Section (see below). They are meant to take 50 minutes but you can take the full 80 minutes of Tuesday's Quiz Section. You must bring a Photo ID to all exams. There will be no quizzes for this course.

**Midterm Exam 1:** Tuesday, October 22, 2019 in TA section. Covers Sections 10.1 and 2.1-3.4 (tentative).

**Midterm Exam 2:** Tuesday, November 19 in TA section. Covers Sections 3.5-4.3 and 10.2 (tentative).

**Final Exam:** Saturday, December 7, 2019 from 1:30-4:20 pm. (Math Common Finals Day)  
at PAA A118

Please bring a **photoed ID** to all exams. Note that the final is NOT the final exam time listed in the Time Schedule. Petitions for alternatives to the common final are usually granted only for religious reasons, reasons of health, or extraordinary circumstances of grave personal import. Petitions are available in the Student Services Office, C-36 Padelford and should be filed by the end of the sixth week of the quarter.

### Rules for Taking Exams:

1. You are allowed to use one handwritten two-sided 8.5" × 11" sheet of notes.
2. Only Ti-30x IIS Calculator can be used during the exam.
3. There are no make-up exams. If you have a *compelling and well-documented* reason for missing a test, speak to the professor about it.

**Grading Policy:** Homework (15%), Worksheet (5%), Midterm Exam 1 (20%), Midterm Exam 2 (20%) and Final exam (40%). Your grade for this course will be based on the sum of these scores. It is impossible to pass this course without taking the final exam.

Worksheets will be graded on a scale of 0 to 2. Your lowest worksheet score will be dropped, and the remaining scores will be used to determine your worksheet/quiz grade.

**Get Help:** Go to any office hours of the instructor and TAs. Another great place to get help is Math Study Center, located in B14 Communications Building.

Monday-Thursday: from 9:30 am to 9:30 pm;

Friday: from 9:30 am to 1:30 pm;

Sunday: from 2:00 pm to 6:00 pm.