MAT 125B Summer Session II, 2018 - Syllabus

Basic Information
Course Title: Real Analysis
CRN: 72407
Course Description: Prerequisite(s): MAT 125A; (MAT 067 or (MAT 022A, MAT 108)). Theory of the derivative, Taylor series, integration, partial derivatives, Implicit Function Theorem. Not open for credit to students who have completed former MAT 127C. GE credit: SE.
Class Meeting Time: MTWR 10:00am–11:40am, Wellman 202 (10-minute break in between)
Course Webpage:
https://www.math.ucdavis.edu/~shu/teaching/Summer_2018/mat125b
*Note: You have responsibility to check this webpage frequently and be notified of notice updates as well as file posts. I will use Canvas for grades only. Nothing related to course material will be posted or announced on Canvas. Please pay attention to this issue.

Instructor’s Information
Instructor: Jingyang Shu
Office hours: M 12:30pm–3:00pm, R 1:00pm–3:30pm, 2123 MSB
Email: jyshu@ucdavis.edu
*Note: no specific homework problems will be answered via email

Grading
Homework: 5 * 4 points = 20 points
Quizzes: 4 * 8 points = 32 points
Final: 1 * 48 points = 48 points
A curve will be decided and applied after the final exam.
*Note: There is a reader assigned to this class. If you have any grading issue with respect to homework or quiz, you need to return you homework or quiz to me with an explanation attached to it. The explanation should include the problem you want to regrade, and why you think you deserve more points. Then I will take them to the reader and let him regrade.

Homework
• Homework problems will be added and assigned after each class. Each homework problem set consists of all the problems assigned Monday through Thursday.
• Each problem set will due on the following Tuesday at the beginning of the lectures. Homework 4 will due on Wednesday 9/5 since Monday 9/3 is holiday. No late homework will be accepted.
• Each homework worths 4 points. Submission of homework worths 1 point. Only one
problem will be graded, which worths 3 points. I’ll only decide which problem to be
graded after collecting the homework. If you miss this problem, you will only receive
1 point for submission (if submitted). So make sure you do all the problems.
• You are quite welcome to discuss these problems and course materials with your class-
mates or with me during my offices hours. Collaboration on homework is allowed,
but each student MUST write solutions on their own. I will not answer emails about
specific homework problems.

Quizzes
• There will be four quizzes (20-25 minutes long each, in class). They are scheduled on
Tuesdays, stating from second week. Quiz 4 will be on Wednesday 9/5 since Monday
9/3 is holiday.
• The quizzes will be on definitions, statements of theorems, examples, counter examples,
and use of theorems.
• In each quiz, there will be three problems (8 points for each quiz).
  – The first problem (worths 2 points) will let you write down two definitions, or
two theorems, or one each. You will earn 1 point each if it’s completely correct.
  – The second problem (worths 3 points) will be an EXACT homework problem.
  – The third problem (worths 3 points) will be a problem modified based on a home-
work problem.
• Each quiz will cover the material from last week.
• There will be no make-up quizzes.
• No books, notes, calculators, or electronic devices are allowed during quizzes. Com-
munication between students is strictly prohibited.

Exams
• There will be one final exam (100-minute long, in class).
• The exam will be comprehensive.
• There will be no make-up exams.
• No books, notes, calculators, or electronic devices are allowed during exams. Commu-
nication between students is strictly prohibited.

Important Dates
• Class Begins: 8/6
• Last Day to Drop: 8/13
• No Class: 9/3 (Labor Day)
• Homework Due: 8/14, 8/21, 8/28, 9/5, and 9/11
• Quizzes: 8/14, 8/21, 8/28, and 9/5
• Final Exam: 9/13

Students with Disabilities
Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hear-
ing, etc.) who needs to arrange reasonable accommodations must contact the Student Dis-
sability Center (SDC). I will accommodate only those requested by the SDC. If you have any
questions, please contact the SDC.