33B: Differential Equations

Winter 2020

Instructor: Haofei Fan   **Email:** fhfatpku001@math.ucla.edu (When emailing, please mention you are in math 33B. If the mail are not urgent, usually I will replay within 2 days. If the mail is urgent, please add **Urgent** in the subject. I will reply ASAP.)

Lectures: MWF 9am-9:50am, BUNCHE 2209A
Office: 5352 Math Sciences Building
Office Hour: Wed 1:00 pm - 2:30 pm (tentative)
Course Web Pages (CCLE):https://ccle.ucla.edu/course/view/20W-MATH33B-1 (We will post important infomation here, please check frequently!)

Teaching Assistance:

- YIH, SAMUEL (email: syihwork@gmail.com office: MS 3969. Office Hour: TBA)

    1A: PUB AFF 1337 / Tuesday / 9:00am-9:50am

    1B: PUB AFF 2232 / Thursday / 9:00am-9:50am

- KIM, BOHYUN (email: bohyunk@math.ucla.edu office: MS MS 5343-15 Office Hour: TBA)

    1C: ROYCE 156 / Tuesday / 9:00am-9:50am

    1D: DODD 167 / Thursday / 9:00am-9:50am

- BOSCHERT, NICHOLAS (email: Nickboschert@math.ucla.edu office: MS 2344 Office Hour: TBA)

    1E: KAUFMAN 101 / Tuesday / 9:00am-9:50am

    1F: ROLFE 3134 / Thursday / 9:00am-9:50am

Prerequisite: Enforced requisite: course 31B with grade of C- or better. Highly recommended: course 33A. First-order, linear differential equations; second-order, linear differential equations with constant coefficients; linear systems. **Highly recommended topics**(we will have a short review sessions about these): integration (subsitution, integration by parts), complex numbers, linear algebra(eigen value/vectors, kernal, etc.)

Textbook: *Differential Equations with boundary value problems, second edition* by Polking, Boggess and Arnold. (Please make sure you get the correct Edition (2ed Edition). If you are uncertain about your textbook resources, please get one from UCLA bookstore.)

Course Schedule(Tentative): We will primarily follow the schedule posted on the math department website. Link: https://www.math.ucla.edu/ugrad/courses/math/33B

Recommendations: If you want to get **a desired grade**: attend lectures, discussion, feel free to ask questions; go to my or TA's office hour, or talk with your classmates, if you need help; prepare (read the textbook yourself before the lecture)/ review the content after each lecture/dis; do extra questions in the textbook.

Gradings: Your final grading (From 0.00 - 100) in this class will be computed as the maximum of the following schemes:

Scheme 1		**Scheme 2**	
Homework	10%	Homework	10%
Midterm 1	20%	Max of Midterm 1 and Midterm 2	30%
Midterm 2	20%	Final	60%
Final	50%		

Final Letter Grade: Your final letter grade (From A+ to F) will be based on the curve (final grade distibutions). However, you will receive **at least**:

- A+, if your final score $= 100$.

- A, if your final score ≥ 90.

- C, if your final score ≥ 70.

- D-, if your final score ≥ 50.

Homework: Usually, homework will be collected and assigned on Fridays BEFORE the lecture begins, (It will also be posted on CCLE website weekly, the first homework will be assigned on Fri Week one and collected on Fri week two). It will be graded by a reader and returned to you in your discussion sections by your TA, usually the following week. Please make sure to **Write Down Your NAME, UID and TA Section, when you turn in your HW.** Your score on each homework assignment will be based on some randomly chosen problems, graded for correctness, as well as overall completion of the rest of the assignment (10 pts total, 9 from selected questions, 1 from completion). **Late homework will not be accepted**, but **Two** of your lowest homework score will be dropped.

Exams: During the exams, you will **NOT** allow to use notes, calculators, cell phones, or anything other than pen/pencil. There will be no make-ups for missed midterms. If you miss one midterm for a legitimate, documented reason, your grade will be computed using the second scheme above. You must take the final exam in order to pass the class. Make-ups for the final exam are permitted only under exceptional circumstances, as outlined in the UCLA student handbook. Please bring a photo ID to every exam. Usually, midterms will be inclass exams.

Important Dates:

Midterm #1 .... TBA
Midterm #2 .... TBA
Final Exam .... TBA

Student Math Center(SMC): The Student Math Center (SMC) is located in MS 3974 (Monday- Thursday, 10am-3pm). They offer group study and tutorials for lower division mathematics courses to students enrolled in UCLA lower division math courses. (Recommended)

Integrity: All students are expected to adhere to university codes of academic integrity. All instances of academic misconduct (including Cheating, Plagiarism, and Collusion) will be rigorously investigated and carried forward with the Office of Dean of Students.

Other Information For any grading complaints please contact the instructor/TA within 2 week of receiving your Exam/homework. For the homework, students are encourage to work together. However, DO NOT simply copy solutions from your classmates or other resources. During Exam, Intructor and TAs may **record** any suspecious behaviors. Submitted exam papers (midterms and final) will be **scanned**.

(You will receive email notification for any changes on the syllabus.)