

Spring 2021 MATH 461 Syllabus — Ruiwen Shu

INSTRUCTOR:

Ruiwen Shu Email: rshu@cscamm.umd.edu.
Office hours: 2:00pm-3:00pm TuTh (on Zoom), and by appointment.
Office hour link: <https://umd.zoom.us/j/5108150194>
More information will be available at my website
<https://shuruiwen.com/teaching-math461/>

LECTURE (all sections): TuTh 12:30pm-1:45pm, use Zoom through ELMS

DISCUSSION:

section 0211: 1:00pm-1:50pm Monday section 0221: 2:00pm-2:50pm Monday
section 0231: 3:00pm-3:50pm Monday

TEXTBOOK: Linear algebra and its applications, 6th Edition, by David C. Lay, Steven R. Lay and Judi J. McDonald

MATLAB tutorial: <https://www.mathworks.com/learn/tutorials/matlab-onramp.html>

EXAMS: there are three in-class midterm exams and one two-hour final exam. You are allowed to use the lecture notes, your own notes, and calculators during the exam.

The final exam will take place in the exam week, but the specific time has not been decided.

QUIZZES: there is a quiz at the end of the lecture on each Tuesday (except the first week, the last week, and the weeks with midterms), based on the contents of the previous week. There are 10 quizzes in total, and 2 lowest grades will be dropped when calculating the final grade.

MATLAB PROJECTS: there are 4 MATLAB projects, which will be assigned on my website. The projects will be assigned on Thursdays (see the schedule) and the due date is the next Friday. 1 lowest grade will be dropped when calculating the final grade.

HOMEWORK: will be assigned on each Thursday (when there is no MATLAB projects assigned), and the due date is the next Friday. For the grading of homework, half of the grade is for completeness, and half of the grade is for the correctness of one random problem. There are 10 homework in total, and 2 lowest grades will be dropped when calculating final grade.

GRADES: the total points will be calculated as follows:

Quizzes	10
Homework	10
MATLAB projects	10
Midterms	$15 * 3 = 45$
Final exam	25
TOTAL possible points	100

The letter grade, which may be A+, A, B+, B, C+, C, F, will be determined according to your total points, but the cutoffs will not be determined until the final exam is graded.

Tentative schedule:

Weeks	Tuesday	Thursday	MATLAB projects
1	01/26: 1.1	01/28: 1.2	
2	02/02: 1.3, 1.4	02/04: 1.5, 1.7	
3	02/09: 1.7, 1.8	02/11: 1.9, 2.1	assign 1
4	02/16: 2.1, 2.2	02/18: 2.3	deadline 1
5	02/23: Midterm 1	02/25: 3.1, 3.2	
6	03/02: 3.3	03/04: 4.1, 4.2	assign 2
7	03/09: 4.2, 4.3	03/11: 4.4	deadline 2
spring break			
8	03/23: 4.5, 4.6	03/25: 4.7	
9	03/30: Midterm 2	04/01: 5.1	assign 3
10	04/06: 5.2	04/08: 5.3, 5.4	deadline 3
11	04/13: 5.5, 5.6	04/15: 5.7	
12	04/20: 6.1, 6.2	04/22: 6.3, 6.4	
13	04/27: 6.5, 6.6	04/29: Midterm 3	assign 4
14	05/04: 7.1	05/06: 7.2	deadline 4
15	05/11: 7.4 (not in exam)		