CS-UY 1133: Engineering Problem Solving and Programming
Fall 2020

This is the official syllabus for CS-UY 1133.

Instructor:	Lei Yin
Office:	-
Phone:	
Email:	
Office hours:	We encourage everyone to use FORUMS in NYU classes for class questions. Office hours will be posted later.
Textbook:	"Matlab: A Practical Introduction to Programming and Problem Solving", 5th Edition, by Stormy Attaway, ISBN: 978-0-12-804525-1, Elsevier, 2019. Free electronic copies are available at the website: https://www.sciencedirect.com/book/9780128154793/matlab
Course Website:	Materials for this course are available on NYU Classes.
Grading Scheme: end of the semester:	Course grade will be computed according to the grand total score at the

Grand total = 10% (HW) + 10% (Lab) + 20% (Exam1) + 25% (Exam2) + 35% (Final)

Grading scheme on Spring 2020:

Letter Grade	Minimum grand total score needed
A	94
A-	90
B+	85
B	80
B-	75
C+	70
C	65
C-	60
D+	55
D	40
F	0

Getting a Copy of Matlab: Make sure you get a free copy of Matlab from NYU IT as soon as possible. Do not use versions before R2016b.

Exam schedule: First midterm: Oct 20 (Tuesday) from 12:30 to 1:50 (Common-exam period). Taken remotely.
                        Second midterm: Nov 17 (Tuesday) from 12:30 to 1:50 (Common-exam period). Taken remotely.
                        Final exam: TBD Taken remotely.

HW Assignments: There will be about one HW assignment per week.
                      They must be handed in online before the due date.
                      Late HW is not accepted.
                      Submit your HW early in case the NYU network is down when you upload your file.
                      Multiple submissions are OK and only the final version before the due-date will be graded.
                      Inspect the file that was submitted to make sure that it is the intended one. (No excuse for submitting a wrong file!)

Labs: A lab grade is determined by the effort in the lab rather than the correctness of the work.
                      So make sure that you attend all the labs (either online or in-person) and seriously attempt all the required tasks.
                      A missing lab cannot be made-up for whatever reasons.
                      With proper notification and justification, you may attend a different lab that day. However, you must contact me (ly652@nyu.edu) and our head TA Martin (martin@nyu.edu) in advance.

Exams: TBD

Missing exams/labs/homeworks: If you believe you have a legitimate excuse, bring written documentation and contact:

                        Deanna Rayment
                        Coordinator of Compliance
                        Office of Student Affairs
                        LC 240C, Dibner Building
                        646-997-3046
                        Deanna.rayment@nyu.edu

                      as soon as possible.
                      She will then contact me directly if the excuse is deemed justified.

Disabilities: If you are student with a disability who is requesting accommodations, please contact New York University's Moses Center for Students with

Disabilities at 212-998-4980 or mosescsd@nyu.edu. You must be registered with CSD to receive accommodations. Information about the Moses Center can be found at www.nyu.edu/csd. The Moses Center is located at 726 Broadway on the 2nd floor.

Academic Misconduct: Students in the class must obey the Student Code of Conduct of the School of Engineering. In particular, pay attention to the policies and procedures on academic misconduct. More specifically for the home assignments in this class, it is fine to discuss with anyone the procedure and method of solving a problem, but the computer program that you submit must be written entirely by yourself.

Course schedule: Calendar with day-to-day listing of lectures, labs and HW due-dates:

Month	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
September	30	31	1	2 Lec 01 Class 9:30-10:50am Matlab Intro Floating number system	3	4 Lab 01	5
September	6	7 Labor day No class	8	9 Lec 02 Class 9:30-10:50am Array Variables	10	11 Lab 02	12
September	13	14 Lec 03 Class 9:30-10:50am Elementwise Array Arithn	15 HW1 due Last day to drop a class	16 Lec 04 Class 9:30-10:50am Vector-Indexing	17	18 Lab 03	19
September	20	21 Lec 05 Class 9:30-10:50am Bult-in Functions	22 HW2 due	23 Lec 06 Class 9:30-10:50am Logical Variables + Logic Operations	24	25 Lab 04	26
September/ October	27	28 Lec 07 Class 9:30-10:50am Logical Indexing	29 HW3 due	30 Lec 08 Class 9:30-10:50am Random Floating Point Numbers + Random Integers	1	2 Lab 05	3

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
October	4	5 Lec 09 Class 9:30-10:50am Simulations 1	6 HW4 due	7 Lec 10 Class 9:30-10:50am Review Exam 1	8	9 Lab 06 Mock First Exam	10
October	11	12 Lec 11 Class 9:30-10:50am Branching 1	13	14 Lec 12 Class 9:30-10:50am Branching 2	15	16 Lab 07	17
October	18	19 Lec 13 Class 9:30-10:50am For-loop 1	20 First Midterm	21 Lec 14 Class 9:30-10:50am For-loop 2	22 HW5 due	23 Lab 08	24
October	25	26 Lec 15 Class 9:30-10:50am While-loop 1	27 HW6 due	28 Lec 16 Class 9:30-10:50am While-loop 2	29	30 Lab 09	31

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
November	1	2 Lec 17 Class 9:30-10:50am Branching + Looping	3 HW7 due Last day to leave or withdraw classes	4 Lec 18 Class 9:30-10:50am Review Exam 2	5	6 Lab 10 Mock Second Exam	7
November	8	9 Lec 19 Class 9:30-10:50am User-Defined Functions 1	10	11 Lec 20 Class 9:30-10:50am User-Defined Functions 2	12	13 Lab 11	14
November	15	16 Lec 21 Class 9:30-10:50am String 1	17 Second Midterm	18 Lec 22 Class 9:30-10:50am String 2	19	20 Lab 12	21
November	22	23 Lec 23 Class 9:30-10:50am audio processing by Matlab 1	24 HW8 due	25 Lec 24 Class 9:30-10:50am audio processing by Matlab 2	26 Thanksgiving	27 No Lab Thanksgiving	28
November/ December	29	30 Lec 25 Class 9:30-10:50am image processing by Matlab 1	1 HW9 due	2 Lec 26 Class 9:30-10:50am image processing by Matlab 2	3	4 Lab 13	5

December	6	7 Lec 27 Class 9:30-10:50am Review Final	8 HW10 due	9 Lec 28 Class 9:30-10:50am GUI (not included in final)	10	11 Lab 14 Mock Final Exam	12
December	13 Last day of Fall 2020 classes	14	15	16 Final Exam	17	18	19
December	20	21	22	23	24	25	26
December	27	28	29	30	31		