

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

This is the official syllabus for CS-UY 1133.

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Office hours: Monday: 9:00 – 10:30,
Tuesday: 2:00 -- 4:00.

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: Course grade will be computed according to the grand total score at the end of the semester:

$$\text{Grand total} = 10\% (\text{HW}) + 10\% (\text{Lab}) + 20\% (\text{Exam1}) + 25\% (\text{Exam2}) + 35\% (\text{Final})$$

The letter grade shall be based on the following rigid scheme to be specified shortly after the first midterm exam. For your information, the scheme that was used last semester was:

Letter Grade	Minimum grand total score needed
A	90
A-	86
B+	81
B	75
B-	68
C+	61
C	56
C-	49
D+	42
D	35
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: March 10 (Tuesday) from 12:30 to 1:45 (Common-exam period). Location TBA.
Second midterm: April 14 (Tuesday) from 12:30 to 1:45 (Common-exam period). Location TBA.
Final exam: TBA

HW Assignments: There will be about one HW assignment per week.
They must be handed in online before the due date.
Absolutely no late HW is accepted.
Submit your HW early in case the Poly 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 and seriously attempt all the required tasks.
Any activities unrelated to the lab will lower your lab score.
Points are deducted for arriving late or leaving early.
Thus no surfing on the web, chatting, etc. during your lab is allowed.
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 at least 24 hours in advance.

Exams: Exams consist of writing programs on paper (rather than on your computer).
Electronic devices are not allowed.
Textbooks and any form of lecture notes are not allowed.
You must bring your NYU ID card with you.

Missing exams/labs: 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 (like a death in the family).

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.

FAQs: FAQsF19 contains many question and answers pertinent to this course. You must read the entire document at least once before class starts.

It is the go-to place to seek answers to most of CS-UY 1133 organizational and logistics questions

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

Spring 2020 Calendar

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	26	27 Classes start L01: Scalar Variables + Arith + Floating-Number System	28	29 L02: Array Variables	30	31 Lab01: Scalar Variables + Arith + Floating-point Number System	1
Feb 2020	2	3 L03: Elementwise Array Arith	4 HW01	5 L04: Vector-Indexing	6	7 Lab02: Array Variables + Elementwise Arith	8
	9	10 L05: Built-in Functions	11 HW02	12 L06: Logical Variables + Logic Operations	13	14 Lab03: Vector-Indexing + Built-in Functions	15
	16	17 Presidents' Day	18 HW03	19 L07: Logical Indexing	20	21 Lab04: Logical Variables + Logic Operations + Logical Indexing	22
	23	24 L08: Random Floating-Point Numbers + Random Integers	25 HW04	26 L09: Simulations 1	27	28 Lab05: Random Floating-Point Numbers + Random Integers + Simulations	29

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Mar 2020	1	2 L10: Simulations 2	3 HW05	4 L11: Review Exam 1	5	6 Lab06: Mock Exam 1	7
	8	9 L12: Branching 1	10 Exam 1	11 L13: Branching 2	12	13 Lab07: Branching	14
	15	16 Spring	17	18	19	20 Recess	21
	22	23 L14: For-Loop 1	24 HW06	25 L15: For-Loop 2	26	27 Lab08: For-Loop	28
	29	30 L16: While-Loop 1	31 HW07	1 L17: While-Loop 2	2	3 Lab09: While-Loop Withdrawal Deadline	4
Apr 2020	5	6 L18: Branching + Looping	7 HW08	8 L19: Review Exam 2	9	10 Lab10: Mock Exam 2	11
	12	13 L20: User-Defined Functions 1	14 Exam 2	15 L21: User-Defined Functions 2	16	17 Lab11: User-Defined Functions	18
	19	20 L22: Strings 1	21 HW09	22 L23: Strings 2	23	24 Lab12: Strings	25
	26	27 L24: Structure Variables 1	28 HW10	29 L25: Structure Variables 2	30	1 Lab13: Structure Variable	2
May 2020	3	4 L27: Review Labs and HWs	5 HW11	6 L28: Review Finals	7	8 Lab14: Mock Final Exam	9
	10	11 Last Classes No lecture	12 Reading Day	13 Finals start	14	15	16
	17	18	19 Finals end	20	21	22	23