

CSc 235 Assembly Language Programming

Section 020

Fall 2021

Meeting Time & Place: 9:30-10:50 TH in 159 OM

Instructor: Daniel Spiegel

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Office Hours: Online: 11-1:15 TH, 5-5:45 W; in person and outside posted hours by appointment only. Some weeks will have alternate hours to T or TH posted hours. This will be announced.

Prerequisites: CSc 136 or equivalent

Text: TBD

Exams: There will be 2 midterm(s) and a final exam during final exam week. You must get a passing (60%+) grade on exams, collectively, to pass this course.

Attendance: Optional. You are responsible for material covered in class and the corresponding material in the text. If you do not attend class, the material is assumed to be understood.

Make-ups: You will not be permitted to make up an exam without a documentable excuse for your absence.

Programs: Programming assignments will be issued in class and submitted electronically, using the turnin script. There will be at least four (and possibly five) programming assignments. You must earn at least 60% of the possible points on *all* programs, collectively, to pass this course. Late submissions are not accepted

Your programs are to be well written, fully documented, and easily readable. They must also be modular to the greatest extent possible, with each module handling a single task only and your main routine should be little more than a series of invocations. Consistency in style within a program is a must.

Start your programs early. You won't be able to properly grasp concepts if you pull an "all-nighter" to desperately try to finish a program before it is due.

Grading: Grading is on a straight 90 80 70 60 scale. Individual exams may be curved, only if necessary. Weights of grades are:

Programs: 40%
Midterm(s): 18%
Final Exam: 24%

Grade	Scale
A-	[90 , 93)
B+	[87 , 90)
B-	[80 , 83)
C+	[77 , 80)

Academic Dishonesty:

General Statement: I am against it. Violators will receive the maximum allowable penalty for any infraction.

Programs: Your programs are to be, in the large, your own work. If you use any code that you did not write, omitting credit to the author constitutes academic dishonesty. Using the code of a classmate, or providing your code to a classmate(s) is most definitely academic dishonesty. Feel free to discuss and exchange ideas with your peers, but do your own work.

Classroom Etiquette:

Consideration for your classmates, instructor, and the class is expected. Please come to class on time and prepared to learn. No sleeping or noisy eating. If you can't whisper quietly, please don't carry on private conversations. Coming and going during class should only occur in unavoidable situations. And, last but not least, **your cell phone is to be neither seen nor heard.**

Tutoring

If you engage the services of a tutor during the term, you are encouraged in the strongest terms to inform me of the tutor's name and email. I prepare notes on each project and provide them to all graduate assistants and tutors. These notes will allow your tutor to provide you with the most effective possible assistance.

Tentative Class Schedule:

The following is a **tentative** class schedule. It is subject to change. Note that some topics may extend past one week.

COVID

The safety of everyone is of paramount importance. Masking and distancing are required and compliance is expected.

CSc 235 Tentative Schedule

<i>Week</i>	<i>Topics</i>	<i>Power Point Set</i>
1	Intro; Machines	01
2	Bits, Data Types, & Operations	02
3	Intro to Digital Logic	03:1-15, 04
4	More Machines, Intro to x64 Assembler	05
5	Architecture, Debugging Midterm I (Sept. 30)	05
6	Control in x64; Combinatorial Logic - 7-Segment Design	06 07
7	Memory Design Intro to Sequential Circuits	03:16-33
8	Runtime Stack	08
9	Stack (con't), Contiguous Memory Allocation and Access	08
10	Arrays and Structures Midterm II	08
11	Subroutines, Arguments, Return Values	09
12	Subroutines (con't)	09
13	Parameter Passing	09
14	Parameter Passing (con't), Recursion Sequential Circuit Design	09
<i>If time</i>	Floating Point Numbers	

Final Exam: 8 AM on Thursday Dec. 16, 2021