

CSc 310 Procedural Programming Languages

Section 020

Spring 2020

Meeting Time & Place: 3-4:20 PM T TH in 299 OM

Instructor: Daniel Spiegel

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Office Hours: 2-3 MW, 6:30-7:30 M (online) 4:20- 5:50 W, 4:20-4:50 TH, and by appointment

Prerequisites: CSC 126, CSC 235, CSC 237 or equivalent.

Text: *Programming Languages Design and Implementation*, Terrence W. Pratt, Marvin V. Zelkowitz;
ISBN 0-13-027678-2

Exams: There will be 1 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. Each assignment will state the due date. There will be at least three programming assignments. You must earn at least 60% of the possible points on *all* programs, collectively, to pass this course. Programs are to be submitted electronically (info under separate cover) at the designated time on the date due. **Late assignments will not be accepted.**

Your programs are to be your own work unless otherwise directed. They 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. +/- grading will be used, according to the table at right. Weights of grades are:

Programs: 50%
Midterm(s): 18%
Participation/Forum/Homework: 10%
Final Exam: 22%

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. 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**.

Tentative Class Schedule:

The following is a(n extremely) **tentative** class schedule. It is quite ambitious and likely will change. It will be a great accomplishment if we actually cover this entire text.

CIS 310 Tentative Schedule

<i>Week</i>	<i>Topics</i>	<i>Reading</i> Chapter(s) / Sections
1	Language Design	1 §2.1-2.2
2	Context-Free Languages Finite State Languages	§3.1-3.3.1 §3.3.2
3	Push-down Automata & Context-Free Grammars Semantics & Verification	§3.3.4, 4.1 §4.2.1, 4.2.4
4	Elementary Data Types Structured Data	§5.1-5.3 §6.1
5	Abstract Data Types Type Equivalence	§6.2-6.3 §6.4
6	Inheritance Polymorphism	§7.1-7.2 §7.3
7	Expressions Basic Control Structures Midterm	§8.1-8.2 §8.3.1-8.3.2
8	Prime Programs Logic Programming (optional)	§8.3.3 §8.4
9	Subprogram Control Parameter Passing	§9.1-9.2 §9.3
10	Stack vs. Heap Storage Garbage Collection	§10.1-10.3, 10.4.2 10.4.3
11	Exception Handling Parallel Execution	§11.1 §11.2.1
12	Parallel Execution (con't.) Synchronization	§11.2.2 §11.2.4-11.2.5
13	Processor Design Client-Server Computing	§11.3 §11.4
14	Text Processing If time: Web Pages	§12.17.2003 §12.2.1

Final Exam: TBA