

CS 110 Course Information

- Instructor:** Douglas Anderson (da@cs.stanford.edu)
- Office:** Gates 195 during hours; Gates 160 off hours
- Office Hours:** Monday 2:15 – 4:00 Gates 195 Wednesday 2:15 – 4:00 Gates 195
...or by appointment
- TA:** Cameron Ring (cameron.ring@cs.stanford.edu)
- Office:** Gates 195
- Office Hours:** Tuesday 3:00 – 4:00 Gates 195 Thursday 3:00 – 4:00 Gates 195
...or by appointment
- Staff email:** cs110-staff@cs.stanford.edu
- Mailing list:** We will set up a class mailing list make sure everyone gets announcements.
More on this to come.
- Newsgroup:** Students in the class may wish to use the class newsgroup to discuss
problems/look for partners. However, the staff will not answer questions from
the newsgroup: su.class.cs110
- Lectures:** Monday and Wednesday, 12:50 – 2:05, Gates b08
- Sections:** Sections will be scheduled if needed on Friday during the regular class hours.
- Prerequisites:** The official prerequisite for this course is completion of Stanford's CS 106
program. If you have not completed CS 106B or CS 106X, you should be fairly
proficient in a high-level language, such as C.
- Electronic access:** All course handouts, programming project starters, and other course material
are accessible from the course web page at:
<http://cse.stanford.edu/class/cs110/>
...or through the "CS Catacombs". Note: if attendance to lecture starts
dropping, I may stop putting lecture notes online.
- Books:** *Microcomputer Architecture and Programming* by John Wakerly (optional)
M68000 Programmer's Reference Manual (provided)

Hardware: Palm has generously provided us with loaner devices for the quarter. These will be provided to those students who would like them (class size permitting). Note that I am personally responsible for these units and will be collecting (and cashing) a refundable deposit check of \$369 before letting out any of the units. For those that wish, the class may be done on the Palm Emulator (which is free). Those with their own units may use them, but beware that you may lose your data (back up often).

Software: The supported software for this quarter is Metrowerks Codewarrior. The Palm-specific parts of Codewarrior will be made available to students taking the class, so if you have CW from another class, you need buy nothing else. The Palm support will soon be present on the campus Mac clusters. Note that we are planning on supporting PC Codewarrior, but our top priority will be Mac support. Environments other than Codewarrior (gcc/pila) will not be supported this quarter due to the sheer overhead of supporting many environments.

Exams: There will be an in class midterm worth 15% of your grade on **May 3rd** and a final exam at the regular time (8:30 – 11:30 on **June 7th**) worth 25% of your grade. **If you have a conflict with either time, you must let me know at least two weeks prior to the exam.**

Homework: The remaining 60% of your grade comes from the programming projects. There will be a total of five labs (including lab #0). Assignments will be graded based on correctness *and readability*. Homeworks must be turned in *at midnight* on the day they are due. Submissions will be electronic. Information will be handed out with the first assignment. You may work with 1 other person on assignments, though this is not required.

Late policy: In CS 110 you are given four late days that you can use to turn in assignments late without being penalized. Each late day is 24 hours. You may take more than four late days throughout the quarter, but you will be penalized 10% for any late days you take above the four free ones. **You may not turn in any assignment more than a week late.**

Extensions (additional late days) will not be given except in very special circumstances. The four late days given to you are not designed to be freebies, but instead to be self-granted extensions. Extra late days will not be granted unless you had a good reason to take all of your free late days and you have a good reason for the extra one.

Tentative Schedule:

	Date	Title	Reading	In	Out
1.	March 31	administration; data representation	ch. 4		
2.	April 5	data/instruction representation; basic computer organization	ch. 5, ex 5.11		Lab #0
3.	April 7	more computer organization; intro to assembly language	ch. 6.1-6.4		
4.	April 12	addressing	ch. 7.1-7.4	Lab #0	Lab #1
5.	April 14	addressing - flow control	skim ch 8		
6.	April 19	flow control			
7.	April 21	subroutines	ch. 9.1-9.4	Lab #1	Lab #2
8.	April 26	subroutines; data structures	ch. 3		
9.	April 28	data structures			
10.	May 3	In class MIDTERM		<i>Lab #2</i>	
11.	May 5	Traps	ch. 11	Lab #2	Lab #3
12.	May 10	traps; input / output			
13.	May 12	i/o; interrupts			
14.	May 17	operating systems; multi-tasking	ch. 12		
15.	May 19	o/s		Lab #3	Lab #4
16.	May 24	performance; RISC vs. CISC			
17.	May 26	advanced topics			
18.	May 31	<u>Memorial Day – NO CLASS</u>			
19.	June 2	advanced topics		Lab #4	
	June 7	Final Exam (8:30 – 11:30). Location: TBA			