

CC 3.12
Computing: Its Nature, Power and Limits

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Office Hours T 10:00–10:45am; W 10:00–1:00pm; Th 3:30–5:00pm
and by appointment

Websites <http://www.sci.brooklyn.cuny.edu/~sdexter/cc312>
<http://acc6.its.brooklyn.cuny.edu/~cc312/>

Required Texts Reed, *A Balanced Introduction to Computer Science, 2nd Ed.* (R)
Coursepack (available at Shakespeare&Co, Hillel Place). (CP)

Grading Your grade will be determined by your performance on laboratory and homework assignments, 2 midterm examinations, and one cumulative final examination. These will contribute to your grade as follows:

Exam I	17%	HW/Labs	33%
Exam II	17%	Final Exam	33%

Reading Although the volume of reading for this course is not great, some of it is difficult. To get the most out of it, you should do the assigned readings *before* lecture on the day they are assigned — and you should probably read them again after the lecture. You are encouraged to read ahead.

Homework & Laboratories Your homework assignments will be based on laboratory experiences and will be due one week later. Your homework/lab grade will be primarily based on participation and effort (with less emphasis on correctness). Among other things, this means that your grade depends in part on your attendance. While you are certainly welcome to work with others during the lab, you must write up and turn in your own work.

Exams The two midterms will *not* be cumulative. Your exam grade *will* be based on correctness, so if you don't understand something on the homework, you are responsible for figuring it out in time for the exam. **Cheating on exams will not be tolerated.**

Attendance You are responsible for everything that is covered in class. Although lecture attendance is not mandatory, I will take attendance every day. Class participation will affect the assignment of final grades in “borderline” cases.

Lateness I am in general very intolerant of lateness when it comes to handing in assignments (or missing exams!). Except in special circumstances, I will simply not grade late work. Exceptions to this are *documentable* family/medical emergencies, in which case I can be fairly flexible. If a more complicated situation is causing you to fall behind, *please* talk to me as soon as possible so we can figure something out.

General Course Policy

Expectations:

I expect you to:

- Attend class, and make full use of class time, whether in lecture, discussion, or laboratory.
- Complete each weekly homework assignment to the best of your ability.
- Read the assigned readings carefully before the day we are supposed to discuss them.
- Ask questions in class, or come see me in office hours, if you are confused.
- Let me know if, for any reason, you're having trouble meeting these expectations—don't vanish!

In return, you can expect me to:

- Come to class with energy and enthusiasm.
- Work to make the course material as comprehensible as possible, and to reveal its inherent interest.
- Return graded homework assignments and exams promptly.
- Hold you to high academic standards.
- Be sensitive to external demands that may affect your participation and performance.

College Policies:

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for implementing that policy can be found at this site: <http://www.brooklyn.cuny.edu/bc/policies>. If I suspect a violation of academic integrity and, upon investigation, confirm that violation, or if the student admits the violation, I MUST report the violation.

In order to receive disability-related academic accommodations students must first be registered with the Center for Student Disability Services. Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell at 718-951-5538. If you have already registered with the Center for Student Disability Services please provide me with the course accommodation form and discuss your specific accommodation with me.

Learning Objectives:

For information about the learning goals and objectives of this course, see the course website at <http://acc6.its.brooklyn.cuny.edu/~cc312/cc312oa.htm>

Calendar

Subject to change...

Date	Lecture	Laboratory	Reading
Jan 27 Jan 29	Computer Science, algorithms, programs	Basic skills	R Ch.1, App. B
Feb 3 Feb 5	Networks & the Internet	URLs, DNS, TCP/IP	R Ch. 3
Feb 10 Feb 12	(Conversion Day: Thurs Schedule)	HTML I College Closed	R 8, 2, App. A
Feb 17 Feb 19	Algorithmic Thinking	HTML II	
Feb 24 Feb 26	Computer languages	Searching, plagiarism	R 8, 2
Mar 3 Mar 5	Information Representation	History of CS	R 12
Mar 10 Mar 12	Exam I	JavaScript I	R 4, 5
Mar 17 Mar 19	Intro to JavaScript; variables, expressions	JavaScript II	R 4, 5 R 7, 9
Mar 24 Mar 26	Using predefined functions; event-driven programming	JavaScript III	R 7, 9 R 7, 9
Mar 31 Apr 2	Machine architecture; stored-program concept	Architecture simulation	R 14
Apr 7 Apr 9	Writing user-defined functions	No Classes	R 14
Apr 14 Apr 16	No Classes	No Classes	
Apr 21 Apr 23	Unsolvability and infeasibility	JavaScript IV	(CP) Snyder 23 R 13
Apr 28 Apr 30	Security & Privacy	Exam II	
May 5 May 7	Encryption	E-commerce, cookies	(CP) Snyder 17
May 12 May 14	Encryption and PGP (lab)	Review	(CP) Snyder 17