

**CC 3.12**  
**Computing: Its Nature, Power and Limits**

<b>Instructor</b>	Samir Chopra		<b>Class Schedule</b>									
<b>Email</b>	schopra@sci.brooklyn.cuny.edu	CC 3.12	M 9:25–10:40	236 NE								
<b>Office</b>	1214 Ingersoll Hall		Th 9:25-10:40	129 F								
<b>Telephone</b>	951-5000 x2044											
<b>Office Hours</b>	Th 11:00 AM - 12:00 noon, and by appointment											
<b>Website</b>	<a href="http://acc6.its.brooklyn.cuny.edu/~cc312/">http://acc6.its.brooklyn.cuny.edu/~cc312/</a>											
<b>Required Texts</b>	Reed, <i>A Balanced Introduction to Computer Science</i> . Pearson Prentice-Hall (R) Coursepack (available at Shakespeare & Co, Hillel Place).											
<b>Grading</b>	Your grade will be determined by laboratory and homework assignments, 2 midterm examinations, and one cumulative final examination. These will contribute to your grade as follows:											
	<table border="1"><tr><td>Exam I</td><td>17%</td><td>HW / Labs</td><td>33%</td></tr><tr><td>Exam II</td><td>17%</td><td>Final Exam</td><td>33%</td></tr></table>				Exam I	17%	HW / Labs	33%	Exam II	17%	Final Exam	33%
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<b>Reading</b>	Though 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 <i>before</i> lecture on the day they are assigned — and you should read them again after the lecture. You are encouraged to read ahead.											
<b>Homework &amp; Laboratories</b>	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 at laboratory meetings.											
<b>Exams</b>	The two midterms will <i>not</i> be cumulative. The final will be. <b>Cheating on exams will result in an automatic F.</b>											
<b>Attendance</b>	You are responsible for everything that is covered in class. Class participation will affect the assignment of final grades in “borderline” cases.											
<b>Lateness</b>	No late assignments will be accepted – i.e., late assignments get an automatic grade of zero.											

## Tentative Calendar

<b>Date</b>	<b>Lecture</b>	<b>Laboratory</b>	<b>Reading</b>
<b>Jan 29</b>	Computer Science, algorithms, programs		R Ch.1, App. B
<b>Feb 1</b>		Windows basics	
<b>Feb 5</b>	Networks & the Internet		R Ch. 3
<b>Feb 8</b>		URLs, DNS, TCP/IP	
<b>Feb 12</b>	NO CLASS		
<b>Feb 15</b>		Algorithmic Thinking (Mon schedule)	R 2, App. A
<b>Feb 19</b>	NO CLASS		
<b>Feb 21</b>	Computer Languages		R 8
<b>Feb 22</b>		HTML 1	
<b>Feb 26</b>	Information Representation		R8; R 12
<b>March 1</b>		HTML II	R 2
<b>March 5th</b>	<b>Exam 1</b>		
<b>March 8th</b>		Searching, Plagiarism	R6
<b>March 12</b>	Intro to JavaScript; variables, expressions		R 4, 5
<b>March 15</b>		JavaScript I	
<b>March 19</b>	Using predefined functions; event-driven programming		R 7, 9
<b>March 22</b>		JavaScript II	
<b>March 26</b>	Machine architecture; stored-program concept		R 6, 12
<b>March 29</b>		Architecture simulation	R 14
<b>April 12</b>		History of CS	
<b>April 16</b>	Cryptography		
<b>April 19</b>		Crypto Tutorial	
<b>April 23</b>	Cryptography		
<b>April 26</b>		Crypto Tutorial	
<b>April 30</b>	<b>Exam II</b>		
<b>May 3</b>		E-commerce, cookies	
<b>May 7</b>	Cryptography: Security and Privacy		
<b>May 10</b>		PGP	
<b>May 14</b>	Cryptography: Public Key Encryption		
<b>May 17</b>	Unsolvability and infeasibility Final TBA		