

CS 501 Study Plan (Summer 2014)**Name:** _____

Place a check mark to the left of each chapter you plan to study over the summer. You will be required to complete an online assessment for at least six modules by August 8th at 9:00 AM. The readings and specific exercises are recommended, but you should feel free to tailor this plan to your needs and interests. Please indicate any changes directly on the table below.

Module	Reading	Exercises	Lab
Chapter 1. Data Storage	1.1–1.6	1, 3a, 5, 8, 12, 16, 17, 19, 20, 30, 32	Logisim ripple carry adder
Chapter 2. Computer Architecture	2.1–2.4	3, 4, 5, 7, 9, 23, 27, 34	Machine language simulator
Chapter 3. Operating Systems	3.1–3.3	2, 9, 11, 13, 15, 16, 19, 27, 28, 46, 53	Unix commands and files
Chapter 4. The Internet	4.1–4.3	6, 10, 11, 14, 25, 27, 28, 34	Wireshark, mtr, web tools
Chapter 3/4. Information Security	3.5, 4.5	questions not in the textbook	Telnet, ssh keys, GnuPG
Chapter 5. Algorithms	5.1–5.4	5, 12, 13, 14, 15, 17, and CodingBat	Intro to Python and IDLE
Chapter 6. Programming Languages	6.1–6.3	questions not in the textbook	Finch robot dance party
Chapter 7. Software Engineering	7.1–7.4	10, 14, 17, 20, 22, 23, 33	Static analysis, debugging
Chapter 8. Data Structures	8.1–8.3	7, 8, 20, 25, 29, 30	Visualizing binary trees
Chapter 9. Database Systems	9.1–9.2, 9.6–9.7	5, 7, 9, 12, 13, 14	Learning relational algebra
Chapter 10. Computer Graphics	10.1–10.4	TBD	TBD
Chapter 11. Artificial Intelligence	11.1–11.3	9, 15, 21, 25, 26, 29	Finch robot obstacle course
Chapter 12. Theory of Computation	12.1–12.4	6, 13, 18, 20, 24, 25	Complexity of algorithms