FYS 102
History of Computing Technology
Fall 2007

Objectives: We will study both the theory and practice of how computer technology has progressed through history, how computers work, and how the development of computer technology has contributed to and continues to contribute to our evolving society.

Textbook: **Computer Science Illuminated** by Dale and Lewis

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Class Time: MWF 10:30

Grading:

papers	30%
class contributions	10%
midterm exams	30%
final	30%

Attendance: Students are expected to attend class regularly. In the event that a student must miss a class, the student is responsible for finding out what assignments were made, what due dates were announced, and what material was covered. Students are encouraged to read the assigned chapters before the class meetings and be ready to ask questions about the material covered.

Exams and Assignments: Students are required to take exams and to turn in assignments on the dates and at the times those events are scheduled. All midterm exams will be announced in advance.

Papers: Each student will select three topics in the general area of Computer Technology History and will write a paper on each. The first paper will be a one page paper and will count as 5 % of the grade. The second will be 3 pages and will count 10% and the third will be 8 to 10 pages and will count as 15% of the grade. Details for each will be given in class.

The schedule given here is tentative. Any changes will be announced in class.

Week	Topic	Readings
August 27	The Big Picture	Ch. 1.1, 1.2, 1.3
September 3	The Information Layer	Ch. 2.1, 2.2
September 10, 14	The Information Layer	Ch. 3.1 – 3.6
September 12	Academic honesty meeting	Burton Morgan auditorium
September 17	The Hardware Layer	Ch. 4.1 – 4.7; 5.1 – 5.3
September 24	Test 1 on Ch. 1 – 4	
September 26, 27	The Programming Layer	Ch. 6.1 – 6.6
October 1	The Programming Layer	Ch. 7.1 – 7.6, 8.1 – 8.4
October 8	The Programming Layer	9.1 – 9.8
October 15	The Operating System Layer	Ch. 10.1 – 10.4, 11.1 – 11.3
October 22	The Applications Layer	Ch. 12.1 – 12.4
October 29	Test 2 on Ch. 5 - 12	
October 30, November 1	The Applications Layer	Ch. 13.1 – 13.6
November 5	Simulation, Graphics, and Other Applications	Ch. 14.1 – 14.5
November 12	The Communications Layer	Ch. 15.1 – 15.3
November 26	The World Wide Web	Ch. 16.1 – 16.4
December 3	Limitations of Computing	Ch. 17.1 – 17.3

Suggested Readings

Ceruzzi, A History of Modern Computing, MIT Press, 2003.

Goldstine, **The Computer from Pascal to Von Neumann**, Princeton University Press, 1993.

Ifrah, The Universal History of Computing from the Abacus to the Quantum Computer, Wiley, 2001.

Wurster, **Computers: An Illustrated History**, 2001.

www.taschen.com

google.com for individual topics

Writing Center: The Center is a free resource available to all Denison students. Student writing consultants from many majors help writers one-on-one in all phases of the writing process, from deciphering the assignment, to discussing ideas, to developing an argument, to finalizing a draft. Because proofreading is a last step in that process, writers should leave plenty of time for getting their ideas right before expecting proofreading help. Consultants also can help writers with personal documents, like job and internship applications. The Center is located on the fourth floor of Barney-Davis Hall; satellite locations are on the third floor of the Library (the Entry level) and the first floor of Fellows near the Computer Lab. Appointments between 4 p.m. and 9 p.m., Sunday through Thursday, can be made in the Barney location by phoning 587-JOT1. The satellite locations are drop-in; check the website at http://www.denison.edu/writingctr/ for those hours.

Academic Integrity:

The students and faculty of Denison University and the Department of Mathematics and Computer Science are committed to academic integrity and will not tolerate any violation of this principle. Academic honesty, the cornerstone of teaching and learning, lays the foundation for lifelong integrity.

Academic dishonesty is, in most cases, intellectual theft. It includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for evaluation. This standard applies to all work ranging from daily homework assignments to major exams. Students must clearly cite any sources consulted—not only for quoted phrases but also for ideas and information that are not common knowledge. Neither ignorance nor carelessness is an acceptable defense in cases of plagiarism. It is the student's responsibility to follow the appropriate format for citations.

As is indicated in Denison's Student Handbook, available through mydenison.edu, instructors must refer every act of academic dishonesty to the Associate Provost, and violations may result in failure in the course, suspension, or expulsion. (For further information, see http://www.denison.edu/student-affairs/handbook/ar03s02s01.html) .