# CS 101 – Fluency with Information Technology

Fall 2007

**Lecture**: MWF 9:30-10:30 Hilles 109

**Course description**: going beyond mere literacy skills, the goal is to introduce students to the concepts and capabilities of computers so they can become proficient (i.e. fluent) users, with the intellectual ability to reason about and solve complex problems, both now and in the future.

**Prerequisites**: none but the most basic experience, such as using electronic mail and browsing the web. Students with a strong high school background in mathematics or interest in programming should consider taking CS 105 instead.

**Instructor**: Steven Lindell slindell@haverford.edu (610) 896-1203

**Office hours**: WF 12:00-1:00 and by appointment KINSC L308

**Textbook**: *Fluency with Information Technology: Skills, Concepts, and Capabilities* 0321357825 2/E, Lawrence Snyder, University of Washington, Addison-Wesley, 2006.

**Laboratory**: Either M 1:00-2:00; M 2:00-3:00; Tu 10:30-11:30; or Tu 11:30-12:30 in Hilles 110

**Honor code**: You are encouraged to discuss the lecture material and collaborate on the lab problems with other students, provided the only thing you take away from those discussions is your memory or understanding of the material, *not* written solutions or computer files. No collaboration is allowed on quizzes or examinations.

**Accommodations**: Students who think they may need accommodations in this course because of the impact of a disability are encouraged to meet with me early in the semester to avoid unnecessary inconvenience and delays, and should also contact Rick Webb, Coordinator, Office of Disabilities Services (rwebb@haverford.edu, 610-896-1290) to verify their eligibility for reasonable accommodations as soon as possible.

**Evaluation**: approximate weighting of requirements that contribute to the final grade

- Participation 10%
- Labs 20%
- Homework 20%
- Projects (3) 20%
- Examinations (3) 30%

# Schedule

| Date | | Reading | | Lab |
|---|---|---|---|---|
| Week 1 | 9/3 | Chapter 1 | Part 1:<br><br>Basic principles and skills | Sign up for lab periods |
| | 9/5 | | | |
| | 9/7 | Chapter 2 | | |
| Week 2 | 9/10 | | | Lab 1.1:<br>Software and Data Storage |
| | 9/12 | Chapter 3 | | |
| | 9/14 | | | |
| Week 3 | 9/17 | | | Lab 1.2:<br>Internet Basics |
| | 9/19 | Chapter 4 | | |
| | 9/21 | | | |
| Week 4 | 9/24 | Chapter 5 | | Lab 1.3:<br>Basic HTML |
| | 9/26 | | | |
| | 9/28 | Chapter 6 | | |
| Week 5 | 10/1 | | | Lab 1.4:<br>Smarter Searching on the Web |
| | 10/3 | | | |
| | 10/5 | Chapter 7 | Part 2:<br><br>How computers work | |
| Week 6 | 10/8 | | | HTML Project |
| | 10/10 | | | |
| | 10/12 | Chapter 8 | | |
| Week 7 | 10/22 | | | Lab 2.1:<br>Tracking Down the Bugs |
| | 10/24 | Chapter 9 | | |
| | 10/26 | | | |
| Week 8 | 10/29 | Chapter 10 | | Lab 2.2:<br>Algorithms |
| | 10/31 | | | |
| | 11/2 | Chapter 11 | | |
| Week 9 | 11/5 | | Part 3:<br><br>Organizing Data | Lab 3.1:<br>Spreadsheet Basics |
| | 11/7 | Chapter 13 | | |
| | 11/9 | | | |
| Week 10 | 11/12 | Chapter 14 | | Spreadsheet Project |
| | 11/14 | | | |
| | 11/16 | Chapter 15 | | |
| Week 11 | 11/19 | | | Lab 3.2:<br>Database: Tables & Queries |
| | 11/21 | Chapter 16 | | |
| | 11/23 | | | |
| Week 12 | 11/26 | Chapter 12 | Part 4:<br><br>Information Handling | Lab 3.3:<br>Modifying a Database |
| | 11/28 | | | |
| | 11/30 | Chapter 17 | | |
| Week 13 | 12/3 | | | Lab 3.4:<br>Modifying a Database Schema |
| | 12/5 | Chapter 23 | Part 5:<br><br>Computer Capabilities | |
| | 12/7 | | | |
| Week 14 | 12/10 | TBA | | Database Project |
| | 12/12 | | | |
| | 12/14 | | | |