

CIS105 - Preliminaries

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Fall 2003

First Reading Assignment

- **For next class (and before lab Friday)**

- Read Syllabus, and make updates to Ch. 0 in lab manual
- Read Ch. 0 in lab manual (after updating it from syllabus)
- Read Ch. 3,4 in Afzal
- Read Ch. 2 in Deitel.
- Read Ch. 1 in lab manual

**out of sequence
because this is the
practical stuff you need
to do Friday's lab**

- **For Monday's lecture**

- Read Ch. 1-2 in Azfal
- Read Ch. 1 in Deitel.

**this is background
about computing
you need to know
for the exams**

CISC105: General Computer Science

- Introductory computer programming course
- Designed for two groups of students:
 - CISC minors/majors without significant programming experience
 - MATH, CPEG, ELEG majors/minors without significant programming experience
 - those who are considering majoring or minoring in CISC, MATH, CPEG, ELEG
 - non majors that are very math-oriented and want a *significant intellectual challenge*

WARNINGS

- (1) We do NOT cover much of *anything* that is of practical use to the non-computer specialist
- (2) “web design” does NOT equal “programming experience!”

Good reasons to take CIS105 (and to consider CIS as a major/minor)

- You like solving puzzles
- You think math is cool
(the material, not necessarily the courses)
- You enjoy figuring out how complex things work inside
- Anytime you are faced with a repetitious task, you dream about how it could be automated
- You can imagine yourself puffing up with pride when someone calls you a “computer geek”
- You aren’t satisfied with just learning a “little bit” about a computer program, digital watch, VCR, etc.; you won’t rest until you know what *every* button does.
- You can spend hours browsing the websites thinkgeek (<http://www.thinkgeek.com>, and slashdot <http://www.slashdot.com>)

Bad reasons to be a CIS major

- Can make a lot of money in computers
- Can use “computer programming” as a career stepping stone into management
- The Internet is the next big thing
- My family is pressuring me to major in something useful (even though my passion is really for art, theatre, literature, music, social work, etc. etc.)
- I’m good at making web pages, so I’ll be good at CIS (consider instead: commercial art, graphic design, advertising, marketing)

Good reasons to drop CIS105

- You find the first two weeks of the class incredibly confusing and hard
- You hated math... not just the classes, but the material as well.
- You want to learn just enough about computers to get your job done
- You are taking a computer class because you want to learn about Word, Excel, Powerpoint, Databases...
- You can't imagine yourself ever understanding all the advanced features of a complex program like Word or Excel, much less how to create such a program out of nothing more than 1s and 0s.

A partial list of what CIS105 covers

- Programming:
 - design, coding, compiling, testing, debugging in C
 - naming conventions, program structure, and methodology
- Unix Operating System
 - basic file management
 - use of X-windows graphical user interface
- Computer Science concepts
 - data structures, algorithms, computer architecture

WARNING

We do NOT cover much of *anything* that is of practical use to the non-computer specialist (though programming is great training for the mind)

CISC105 emphasizes programming.

Programming is a difficult. and time-consuming task.

More good reasons to **DROP** CISC105

now while you still can!

You
want
CISC 101,
not CISC105!

- You want to learn useful stuff (for non-majors)
 - how to use the Internet (web, file transfer, email)
 - popular office software (Word, Excel, Powerpoint)
 - how to use databases
 - how to select and manage a PC (Windows, etc.)
- You need a group D requirement and want to “learn about computers
- You’re here because you could not get into CISC101
 - (For Computer Literacy try ACCT160, FREC135 instead though these don’t satisfy Group D requirement)
- You need a course that will not require significant time outside of class.

Alternatives to CISC101

- ACCT160: Intro to Business Information Systems
 - Accounting Dept. Computer Literacy Course
 - <http://www.udel.edu/monke/acct160.htm>
- FREC135: Intro to Data Analysis
 - Agriculture School. Computer Lit Course
 - Link to FREC135 course description: [here](#)

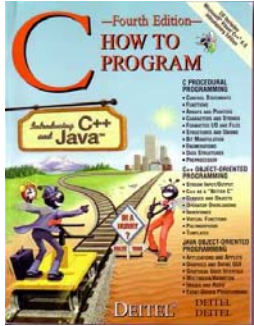
Attendance

- What's required:
 - Three lectures per week: MWF
 - One lab per week: Friday
- Calendar is on the web
(in a system called WebCT;
more on that in a moment)
- You may not be excused from lab.
 - If you have a schedule conflict,
postpone CIS105 and take it next semester.
 - Yes, this is my final answer.

Is that your
final answer?



Required Textbooks

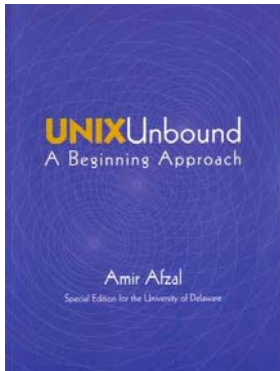


Deitel and Deitel, “How to Program”, 4th Edition

Our main textbook for C programming

We will only cover chapters 1-14, i.e. the C part

We will not cover C++ (CIS181, CIS220) or Java (CIS370)

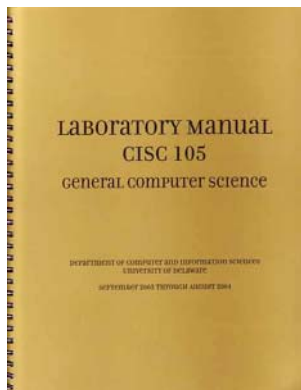


Afzal, Unix Unbound, Special UD Edition

- Supplementary text for learning Unix operating system
- Trimmed down so it won't weigh a ton

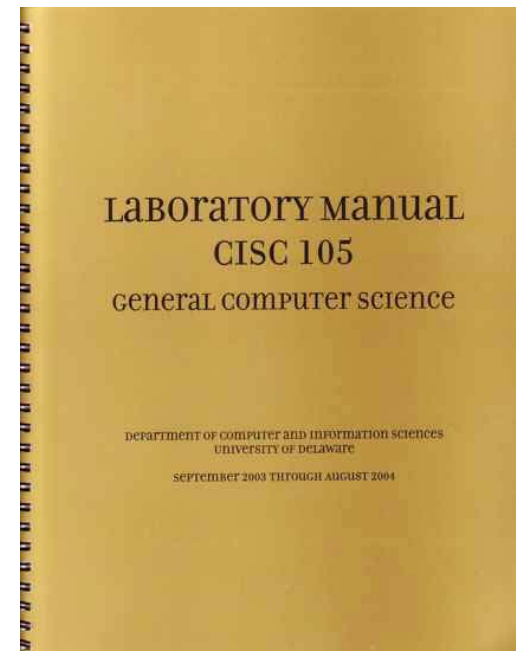
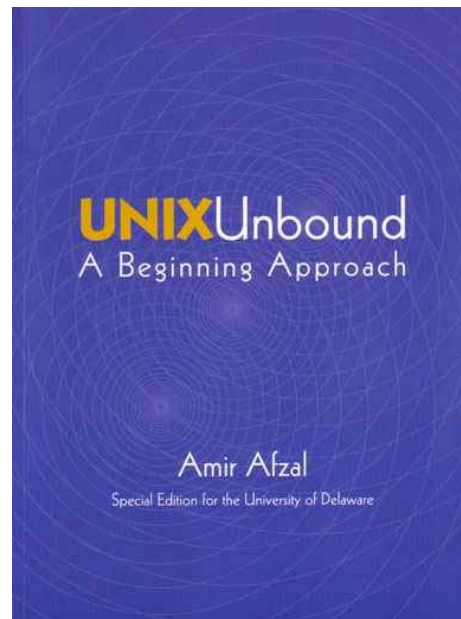
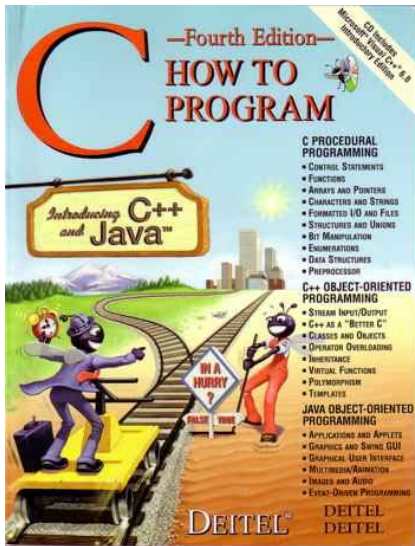
CIS105 Lab Manual

- **We will sometimes follow, sometimes do alternatives**
- Chapter 0: basic “syllabus” type info* (*see next slide)
- Chapters 1-13: lab assignments
- Chapters 15-19: projects
- Appendices: telnet/ftp, Unix cmds, tcsh, unix prompt



Readings

- Found on the course calendar on WebCT
- They are listed on the day they are assigned, and are due by the next class period unless otherwise noted.
- Especially important: read before you come to lab.



Syllabus

- See handout, or access on WebCT
- **In several cases, this overrides information in your lab manual**
 - e.g. grading policies, late assignment policies.
- **What you should do before next class:**
 - (1) Read the syllabus, and make notes in your lab manual concerning the places where the syllabus overrides the material in your lab manual.
 - (2) Then, read chapter 0 in your lab manual.

**Also: get a computer account, and do the rest of the reading...
Ch 3,4 in Afzal, Ch. 2 in Deitel, Ch 1 of labmanual.**

Programming Environment and Computer Usage

- Throughout the semester, we will be learning a computer language called “C”.
- The main computing environment will be the computer known as Strauss.
 - Strauss is one of the “composer machines”:
strauss, bach, brahms, chopin
 - Strauss is primarily accessed via X-terminals at public computing sites throughout campus
 - It can also be accessed via a secure shell program such as ssh, or PuTTY, from any computer connected to the Internet.
- Do not use copland for your C programming work; only use Strauss.

Obtaining an account:

Do it TODAY

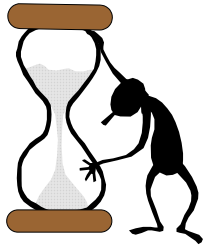
- **Don't have a Unix account yet?**
You must start the process TODAY
- There are **four steps**
- The whole process takes at least 48 hours, because:
 - You have to **wait 24 hrs** between steps 1 and 3
 - You have to wait 24 hrs betwee between steps 3 and 4.
- **You must be *done* with this *before* your scheduled lab on Friday.**

Next: the four steps...

Four steps to a Unix account

(Steps 1-3 are done on the web before first lab)

Step 1: *Wednesday:* Establish a UD PIN



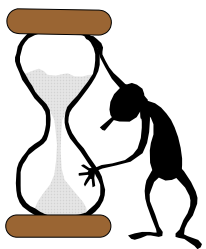
<https://www.mis4.udel.edu/udpin>

Step 2: *Later Wednesday:* Study for the UCCE and ECCE tests
(These are University and Electronic Community Citizenship Exams)

<http://www.udel.edu/help/unixacct.html>

<http://www.udel.edu/codeoftheweb/>

Step 3: *Thursday:* Activate your Unix Account You must pass the UCCE and ECCE tests online as part of this process.

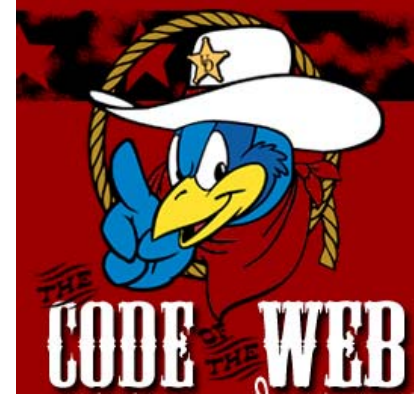


<https://metal1.nss.udel.edu/cgi-bin/auth/network>

Step 4: *Friday:* your account will finally be usable.

We'll test it in Lab. (p. 26 in lab manual).

Other stuff the University wants you to know



- **Lowered Expectations:**

Computers, networks, might be flaky for a few days (weeks?); blame the latest virus and worm madness.

- The **help page**

<http://www.udel.edu/help>

- The latest virus craziness, and what you should do

- Also, find out about resources available to help you

- The new student and returning student checklists

<http://www.udel.edu/help/newstudentcheck.html>

<http://www.udel.edu/help/returning.stu.html>

- File sharing (Kazaa, Napster etc.) could get you in big trouble.