

### Administrivia

- One purpose of the syllabus is to spell out policies (next slides).
- Most other information will be on the Web, either on my home page ([here](#), office hours) or the course Web page ([here](#)).

A request: If you spot something wrong with course material on the Web, please let me know!

Slide 1

### Course FAQ

- “What will my grade be based on?” (See syllabus.)
- “What happens if I can’t turn in work on time, or I miss a class?” (See syllabus.)
- “What’s your policy on collaboration?” (See syllabus.)

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### Course FAQ, Continued

- “When is the next homework due?” (See “Lecture topics and assignments” page.)

- “When are your office hours?” (See my home page.)

Note that part of my job is to answer your questions outside class, so if you need help, please ask! in person or by e-mail or phone.

- “Do I have to buy the textbook?”

No, but I recommend that you do so. (Be advised, also, that while there is good information about C to be found in other books and Web sites, there is also a significant amount of not-so-good information. So use caution?)

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### Course FAQ, Continued

- “What computer(s) can I use to do homework?”

Easiest option may be department’s Linux lab machines. There are others.

You should have physical access (via your TigerCard) to five rooms containing such machines any time the building is open. You should have remote access to any that are booted into Linux. Linux-only machines this year are `diasw0n` where `n` ranges from 1 to 5.

Returning students should already have accounts set up. (If you’ve forgotten your password, go to the ITS help desk and ask for it to be reset.) To change your password, open a terminal window and type `passwd`.

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Slide 5

### What Is This Course About?

- Back story: Primary goal of our traditional first course (CSCI 1320) is to introduce students to programming and algorithmic problem-solving. Another goal of the course as taught until recently, however, was to expose students to certain low-level concepts that contribute to a well-rounded education in computer science. Students coming into the major via other routes often did not get this exposure and struggled in later courses.
- CSCI 1120 was added to the curriculum as a way to address this problem — i.e. to cover the parts of CSCI 1320 that might not be covered by alternative introductory courses. With the recent shift in language(s) used in CSCI 1320, it is required for all students.

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### Course Topics

- Basic C programming, for people who already know how to write programs in some other language.
- (Review of) the Linux/UNIX command-line environment and command-line development tools.
- (Review of) basics of computer arithmetic.
- More advanced topics as time permits.

Slide 7

### Why Learn C? (For Java/Python/Scala Programmers)

- Scala and Python (and Java, less so) provide a programming environment that's nice in many ways — lots of safety checks, nice features, extensive standard library. But they hide a lot about how hardware actually works.
- C, in contrast, has been called “high-level assembly language” — so it seems primitive in some ways compared to many other languages. What you get (we think!) in return for the annoyances is more understanding of hardware — and if you do low-level work (e.g., operating systems, embedded systems), it may well be in C.

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### A Very Short Introduction to C

- As you read (or skim) sections of the textbook you may want to try running the programs yourself. More about all of this next time, but today let's do the “hello world” program ...
- First write the program using a text editor (e.g., `vim`) and save it with a name ending in `.c` (say `hello.c`). (See the “sample programs” Web page for what it looks like.)
- Next, compile the program (turn it into something the computer can execute). Simplest command for that:  

```
gcc hello.c
```

If there are no syntax or other errors, this produces an “executable” file `a.out`.
- Run the program by typing `a.out` at the command prompt. (If that doesn't work, try `./a.out`.)

### Minute Essay

- Tell me about your background: What programming classes have you taken (at Trinity or elsewhere) and what language(s) did you use?
- What are your goals for this course? Anything else you want to tell me?

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