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### Administrivia

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

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### About Minute Essays

- Most lectures will end with a “minute essay” — as a quick check on your understanding, a way for me to get some information, etc., and also to track attendance.
- I mention this now because this is a way you can ask me questions; as I go through today’s material you may have some, and since you can’t just raise your hand, if I say something you have a question about, make a note and include it in your essay.

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### A Few Words about Remote Teaching and Learning

- Last spring's abrupt switch to remote teaching and learning was difficult, and while the fall semester went better, I still have plenty to learn. Two lessons I took away:

Trinity students are great! Almost without exceptions my students made sincere efforts to make the best of a non-ideal situation.

Student access to resources varies. Some "check your privilege" moments for me!

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### A Few Words about Remote Teaching and Learning, Continued

- After a summer of trying to prepare for remote classes, and then a full semester's worth of them, there's still a lot I have to figure out / learn. Possibly true for you as well. Zoom meetings — there's a tendency to zone out. I'll try to reduce the temptation; please do your part too.
- No one knows how the pandemic will evolve and what further actions Trinity might need to take. Also, many people are really struggling. These are stressful times for (almost?) everyone!
- So I say let's all try to be kind and tolerant with each other. Guiding principle:  
Start from the premise that we're all reasonable people trying to do the right thing.

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### Course Web Site

- “Course Web site” is meant to point you to pretty much all information for the course — readings, assignments, etc.
- You can find it via TLearn, or via the link from my home page (should be findable from the page about me in TU’s Web site, or by doing a Web search on my name).
- A request: If you spot something wrong with course material on the Web, please let me know!

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### Syllabus

- (Review syllabus.)
- Syllabus mentions “ACM tutoring”. It will start February 8 and be done via Gather. See my home page for a link to the department’s space.
- (Review course Web site, noting first homework.)

## A Little About Me

- (Next time ...)

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## 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 some years ago, 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. A few years ago we switched to a more-abstract language for CSCI 1320, and at that point this course became required for all students.

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### Course Topics

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- 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 and data representation.
- More-advanced topics as time permits.

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

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- Scala and Python (and Java, though 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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### First Things First(?) — Text Editors

- In class I will use `vim` to write programs. I don't insist that you use it too, but it's a good tool for this job, and if you aren't very good with it, there's no time like the present to get better with it.

To encourage you, see the first homework. Note that it requires access to a UNIX-like environment. You can find suggestions on how to get one under "Links" on the course Web site.

- (Indeed, I think this class is a good time to get more practice with the command line in general; it's in keeping with the spirit of the course, and you have an instructor who knows it pretty well.)

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### About Minute Essays, Revisited

- Most lectures will end with a "minute essay" — as a quick check on your understanding, a way for me to get some information, etc., and also to track attendance.
- Send me your answer(s) by e-mail (no word-processor attachments please).  
And *please* put "minute essay" and the course in the Subject line.

### Minute Essay

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- Where are you located now? Do you plan to be on campus as soon as it opens?
- Do you have access to a suitable environment for remote learning? adequate 'Net access and a reasonably quiet place to work?
- If you took CSCI 1320 or CSCI 1311, who was your instructor?
- What programming languages do you know, at least at a beginner level?
- What's your current or planned major? If it's not CS, are you taking this course for a possible CS minor, or for some other reason?
- Any goals for the course, aside from "do well"?
- Anything else you want to tell me? about the course, what you did over the winter break, ... ?