Parallel Programming
Course Introduction

Welcome! I'm happy to be here. I hope you are too!

Instructor

This course is being taught by:

Professor Mike Bailey
OSU Computer Science
2117 Kelley Engineering Center
mb@cs.oregonstate.edu
541-737-2542

Mike has had over 30 years experience in the computer graphics and high performance computing worlds. He has taught over 100 university classes to a total of around 10,000 students. He has also taught over 100 professional short courses around the world.

In his spare time, he … oh, wait, there is none. Well, that’s not quite true. In the spare time, he likes to dabble in 2-12 outreach, particularly where he can apply computer graphics to it. Does that count as “spare time” or “more work”?

Office Hours and Other Help

Sadly, I am a compulsive email checker. That is the best way to reach me. However, I am not necessarily a compulsive email-returner. I prioritize my email returns. Please do not email me over small things that you really can either look up or figure out for yourself (like “When is the assignment due?”). Those emails get low priority. The really serious concept email questions get high priority.

I am a compulsive telephone ignor. That is not a good way to reach me consistently. I will return messages, but I might take a while. Email is better. This is not meant to be a disrespectful thing. It’s just that I am in and out of my office a lot, and when I am in, there are usually students in there with me.

I will hold Office Hours over the Internet on Zoom. I have my own “Zoom-Room”. Its URL is:

https://oregonstate.zoom.us/j/8340727662?pwd=b01tZ0hJUzdHNUtrdTRqSkdwbG4zdz09

If it asks for a passcode, use: ZeldaDog

It’s only available when I am there to “open it up” (not unlike a real room). To use this, you will need a microphone and speakers. I recommend a headset. They pickup less background noise than a microphone does, and it gives you better sound than a speaker does. There are some nice ones on Amazon because of the popularity of gaming headsets. Just be sure to get one that is compatible with a plug on your computer.

I would love it if you also have a webcam, because then I can see you and get to know you a little better. However, this is optional. And, because I often do these Office Hours from home, I sometimes get a little “help” from the following characters …

What You Should Know on the Way In:
the Course Incoming Expectations

Above all, you should be a good C programmer. Being comfortable with function calls, arrays, for-loops, structures, arrays of structures, structures of arrays, pointers, and linked lists is a must. It is strongly suggested that you not use this class as an opportunity to learn C for the first time.

On the math side. You should know algebra. There will be times when we have an equation that solves for “Y given X” and I will ask, “What if we already know Y, how can we then go back and find X?” It would be good if you can do that. It is strongly suggested that you not use CS 475/575 as an opportunity to learn C for the first time.

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Many of the assignments can be done on Linux systems, which you will have ready-access to. It would be good if you already know how to use the Linux command line and know at least one Linux-based editor (vim is good). It will help you know the Linux commands: Is, move, cp, mv, cd, pwd, rm, echo, gcc, g++, and dircolors to a file (“*”).

This class does a lot of graphing of performance data. You will need access to a program that will let you start data into a 2D table and graph it (Excel is good, but there are others). You will need to be able to copy-and-paste those tables and graphs into a word processing document, add your own text around them, and then produce a PDF file from it.
There is no textbook for this class. The course material will consist of handouts and notes taken while watching the videos.

If you need further reference material, there are a bunch of links at the end of the class Resources site. You’re not required to go look at any of these. They are just some links that I have found useful. They are there if you need them.