

CPSC 5011 – OO Concepts

Introductions

Stephen Riley, Instructor

Syllabus high points

- BLUF: READ IT.
- Textbook: *An Introduction to Object-Oriented Programming (3ed.)*
- There will be (lots of) coding!
- No cheating will be tolerated. You need to know this stuff.

About me

- Tech exec, manager, engineer for 24 years
- Coding for 41 years
- I LOVE SOFTWARE.
 - I think it's the coolest thing in the world.
 - Also love learning about anything.
- BSCE, Milwaukee School of Engineering
- MSE, Seattle University



About me - programming

- Languages
 - C, C++, C#, Objective C, Swift, Java, Pascal, Forth, F#, Elixir, Perl, Python, Lisp, Visual Basic, Assembly (6502, 68000, 80x86)
- OSes
 - DOS, Windows (3, 95+, Server), Linux, Solaris, GCOS, Mac OS 6, Mac OS-X
- Industries
 - Desktop publishing, multimedia, e-commerce, embedded, Wall Street, telephony, web security, entertainment, sales tax, personal security, NLP AI, fin-tech, genetics...
- Favorite topics: compilers, languages, software quality

My biases

- I am *not* an academic computer scientist.
- I *am* a commercial software developer.
 - Pragmatism wins every time.
 - Every decision is an economic one, not a theoretical one.
- Second time teaching a course at SU.
- If you want more theory, just ask. 😊

My commitment to you

- I will do everything reasonable to teach you this material to prepare you for your future academic and professional careers.

Your commitment to me

- You will do everything reasonable in your power to learn this stuff.
 - Do all readings.
 - Do the homework.
 - Be willing to be challenged.
 - Ask questions!

Remote class protocols

- Education is interactive. Keep your camera on.
- If you have a question, ask audibly. Otherwise, mics on.
- Talking on the Zoom chat is fine, but I don't always keep an eye on it.
- If I ask for a show of hands, use the "response" emoji.
 - Let's practice...

Goals for the course

- You will understand:
 - Understand what "object-oriented" means
 - Understand why object-oriented programming exists and what problems it solves
 - Understand *classes, interfaces, objects, types, and pointers*
 - Increase understanding of Java and learn the basics of C++

Meta-goals for the class

- Have fun.
- Learn stuff.
- Learn to love programming.

Meta-goals for the class

- “Computers are not the thing. Computers are the thing that *gets* you the thing.” -- *B. Balkan*
- However, let’s acknowledge you must be able to program them for this to work.

About YOU

- Kahoot.it
- (We'll be doing these from time to time...)



Now let's talk about OO...