CSE 333 – SECTION 10

More classes & review
Course Evals

• We care about your feedback
• Please fill them out 😊
HW4

• How’s HW4 going? Any Questions?

• Due Saturday Night
  • Reality is that hw4 must be committed/pushed/tagged/checked by 11 pm Saturday night
    • No late submission after that, no further late days.
Final Exam

• No final exam
What We Learned

• C Programming
• POSIX
• C++ Programming
• Networks
• Threads
This class is called “systems programming”
  - We hope you learned to interact with the OS
  - “magic OS stuff” kept mostly hidden in CSE 333

If you want to understand the “Magic OS” stuff, take this!
Usually considered a “must take” class

Usually in C 😊
Partner class!

Lots of work, but very rewarding!
CSE 452 – Distributed Systems

- Like OS, but understanding how multiple systems will interact with each other and over a network
- Doesn’t require OS
- More theory to it than you’d think
- Lots of work (project is big and confusing)
- Usually hard to get in to the course
- Hard, but very very cool. Would strongly recommend.
Web Programming!

• In case you liked doing the html part of HW4 (for some reason)
• In case building a website like 333gle is really cool to you

CSE 154 – Web Programming
  • JavaScript, HTML, CSS, (Python maybe?)
  • More hands on and helpful like 142
  • Not as harsh as 14x

CSE 442
  • JavaScript, D3, Tableau
  • More focused on learning to make viz

INFO 340
  • I’ve been told it is good by other CS majors
CSE 369 / ECE 271 Digital Design

- Learn some of how computers work
  - Internal Clocks inside computers
- Learn about bytes & bit manipulations
- Deals with some Boolean algebra
- “Hardware applications of some of 311”

It is all in SystemVerilog!
CSE/ECE 371 Adv. Digital Design

- If you liked SystemVerilog from previous course (271/369)
- Pretty much, you do more Verilog and a little C
CSE/ECE 469 & 470 Computer Arch.

• If you want to know even lower level details into what makes your computer.

• Goes into some processor design, instruction set details, pipelining etc. (Cool stuff)

• Varies from professor to professor

• Could be group work

• In either System Verilog or C
CSE/ECE 474 – Embedded Systems

• If you like C programming, and what we showed in concurrency

• You learn how to interact with a computer with limited ram, and other resources

• Learn How this computer acts different due to “Real Time” requirements.

• C, Team & Partner work

• Can be a lot of work

• you need background info
CSE 461 - Networks

• We did a “basic” understanding of how networks work
• We mainly just understood how it works in C and with POSIX

• Want more network stuff?
• Any language you want (and some required python)

• Teams & Group work
CSE 332 – Data Stucts & Parallelism

• If you like concurrency, then you’ll hopefully like the last part of this class!

• Required to take it anyways

• Team work (usually)

• Cool course 😊

• In java 😞
CSE 455 – Computer vision

• Requires 333

• Deals with bytes in an image
  • This part is in C 😊

• Deals with ML
  • “New ways” to do computer vision via ML

• Sometimes, these are the people making attu slow 😞
CSE 457 - Graphics

• Cool, but hard
• Requires 333

• Lots of C/C++, some (light) linear algebra & physics

• If you want to do graphics, you have to do it in C++

• You will make cool artifacts in this course!

• Skeleton code provided is not documented well and a little bit “spaghetti” 😞
CSE 401 - Compilers

- Does not require CSE 333
- You have a project that has you:
  - Scan a java program into tokens
  - Parse the tokens into a “program tree”
  - Generate symbol table
  - Check semantics
  - Outputs runnable assembly
- Course is cool, incorporates aspects of CSE 331, CSE 311, and CSE 351
- In java, but still a great course!
CSE 484 - Security

- Cool course, but not just systems
- You learn about security generally
- This includes understanding some system security flaws (in C/C++, buffer overflow attacks).
- First lab in the course is in C
- Considered light workload, but still cool 😊
TA-ing

• You are all well enough equipped to TA CSE333, CSE351, CSE374 and others.
• You do NOT have to 4.0 a class to TA it (I didn’t 4.0 this class)
• You do NOT have to be a super social person
• TA-ing will reinforce your understanding of any material
• If you think you would be interested, I would highly recommend reaching out and giving it a try.

• If interested, but scared
  • We have TA training for this
  • Feel free to talk to me or another TA/Professor about it. We are happy to chat :)
Courses in C/C++

• CSE 351
• CSE 333
• CSE 374
• CSE 451
• CSE 455
• CSE 457
• CSE 474
• CSE 484
Ask us Anything!!
Good Luck <3

(((employment increase)))