

main textbooks

Peterson and Davie, *Computer Networks: A Systems Approach*
available online <https://book.asystemsapproach.org/>, also
paper version
focused on higher-level goals, not details of specific implementations

Fall and Stevens, *TCP/IP Illustrated: Volume 1, Second Edition: The Protocols*
available via O'Reilly through library
link on schedule page, or search library catalog
make account with your UVa email
focused on details of the Internet and related systems

coursework

weekly quizzes

- approx 4 questions/week

- mostly autograded, will manually adjust based on work/comments

- 20% of overall course grade, lowest dropped automatically

homework assignments

- mostly programming-based, mostly Python

- approx. weekly deadlines

- 60% of overall course grade

final exam

- last exam slot(!)

- 20% of overall course grade

due times/late policy

assignments usually due Friday @ 11:59pm

90% credit for submissions up to 72 hours late, no questions asked

quizzes usually due Tuesday @ 9:15am

done online, untimed, open notes/book

late submissions not normally accepted (may discuss during lecture)

unusual circumstances — contact me

can often grant exceptions/alternate arrangements

more flexibility if contacted earlier

collaboration

quizzes, homeworks are individual

yes:

- review examples in textbook/lecture/etc.

- discuss high-level concepts (without detailed pseudocode for assignment, etc.)

- lookup up syntax/standard library documentation

no:

- sharing code/detailed pseudocode/answers

- getting code/etc. from web forums, LLMs, etc.

LLM rule of thumb: can ask LLM for things you'd ask classmate for

aside: selected standard python libraries

`bisect` — search/insert within sorted list

`collections`'s `deque` — ordered list with fast insertion/deletion at both ends

`heapq` — priority queue (using a heap)

`struct` — convert between integers and bytes and vice-versa

`array` — convert between integers and bytes in less flexible way

not intending for you to reimplement common, non-networking tasks

may grant exceptions to use other libraries/etc. for *generic* tasks

lectures

will attempt to record (but sometimes technical stuff happens)

will link recordings from schedule page

will not take attendance

homework/topic sync

rough plan on schedule page

imagine things might get out of sync

backup slides