



# 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 psuedocode for assignment, etc.)

- lookup up syntax/standard library documentation

no:

- sharing code/detailed psuedocode/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