

Final Contents & Format

CSCI-UA.0201-00X

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Contents

The exam will test your ability to apply the concepts introduced thus far in the course. Your depth of understanding of each concept will benefit from review of lecture code, lecture slides, labs, recitation exercises as well as reading of the texts. However, nothing appearing in the textbook that was not at least *mentioned* in class will be on the exam.

The exam will emphasize everything we have seen since the midterm:

- Machine-level programming
- The memory hierarchy & caching
- Linking
- Exceptions & processes
- Virtual memory
- Dynamic memory allocation
- Network programming
- Concurrent Programming

Format

The exam will emphasize problem solving using course concepts.

Fact-oriented questions will represent little of the exam. (Ex. What is the name of the stack pointer register in X86-64?). This is why you are allowed the 'cheat sheet'. **Moreover, a cheat sheet will be allowed on this exam.** You can bring 1 page (8.5 by 11, two-sided) of notes. It must be *hand-written*. It can contain whatever you think would be useful. You will be handing it with your exam.

The questions types will roughly be as follows....

- Code Writing (Ex. Implement a C function spawns two threads and waits for them to complete.)
- Code Reading (Ex. Read this assembly code and determine its function.)
- Problem Solving (Ex. Give the contents of a cache after the following series of memory accesses.)
- Multiple Choice
- True/False