

# CSCE 451/851 Homework 4

*Check Master Schedule on Canvas for due date*

*Submit: Upload to Canvas as PDF*

**100 points total, weighted down to 3% (from 5%)**

## **Problem 1 (100 points)**

Consider a virtual memory paging system with the following parameters:  $2^{16}$  bytes of physical memory; page size of  $2^{12}$  bytes;  $2^{20}$  pages of logical address space.

1. **(35 points)** How many bits are in a logical address?
2. **(35 points)** How many bits in the physical address specify the frame?
3. **(30 points)** How many entries are in the page table?