

CSC112 **Spring 2011**
Fundamentals of Computer Science
Topics for Exam #2

1. Files
 - (a) Reading and writing binary files
 - i. Member functions (methods): open, close, read, write, fail, eof
 - (b) Reading and writing text files
 - i. Member functions (methods): open, close, get, getline
 - ii. Using the stream operators >> and <<
2. Arrays
 - (a) Dynamically allocated arrays
 - i. Using `new`
 - ii. Using pointers
 - iii. Two dimensional arrays
3. Structures
 - (a) Declarations
 - (b) Accessing data members
4. Lists
 - (a) Implementation using a structure
 - (b) Ordered lists and un-ordered lists
 - (c) Operations on lists
 - i. Insert (ordered vs. unordered lists)
 - ii. Delete (ordered vs. unordered lists)
 - iii. Linear search (unordered lists)
 - iv. Binary search (ordered lists)
5. Pointers
 - (a) Initializing and de-referencing
6. Problem solving skills