# Final Exam Preparation

CS 5301
Fall 2014

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# Final Exam

- Thursday, Dec 11, 5:00PM to 7:30PM
- Derrick 240 (next door)

- Closed book, closed notes, clean desk
- Comprehensive (covers entire course)
- 50% of your final grade

- No bathroom breaks.  If you leave the room, you must turn in your exam, and not return to the classroom.

# Exam Format

- 100 points total
- Writing programs/functions/classes/code
- Similar format to the graduate programming exam (and to our quizzes).
- 5 questions

# Exam Format

- These concepts will be included:
  - single and/or nested loops
  - class definition (with overloaded operators)
  - linked list
  - recursive function
  - dynamic memory allocation
  - one or two questions based on these weeks
    - 9   stacks & queues
    - 11 searching & sorting
    - 12 trees
    - 13 sets & hash tables

## Topics

- Operators, Data Types & I/O
- Branching & Looping
- Functions, Arrays & Structures
- Pointers & Dynamic Memory Allocation
- Classes & Objects
- Operator Overloading

- Linked Lists
- Stacks & Queues
- Recursion
- Searching & Sorting
- Trees
- Sets & Hash Tables

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## Final Grades

- Final Grade calculation:
  - Lab Exercises (25%)
    - 14 scores: I calculate the average for each week
    - I drop the lowest of the 14
  - Quizzes (25%)
    - I drop the lowest of the 14
  - Final Exam (50%)
- Check grades on TRACS on the gradebook tool
- Comprehensive Exam policy: You can have two attempts to pass this class with a grade of B or higher.

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## Office Hours
### finals week

| Day | Date | Time |
|-----|------|------|
| M | 12/8 | 2:30-4:30pm |
| T | 12/9 | 1:30-2:30pm |
| Th | 12/11 | 1:30-3:30pm |
| | | and by appt. |

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