

Your midterm exam is next Thursday - February 16th - the following is a guide that indicates which resources you should look over for the best chance of being successful on your exam.

You are responsible for the first 4 weeks of lecture material. Please use your notes to review, if you feel like you need extra review on the Lecture material from a source other than your own. Please see the Weekly reviews that are posted under "Griffin's Course Materials", those would be a good starting point in the event you are completely lost.

Along with written information you are responsible for any code written/shown during lecture. I encourage you to play around with the lecture material on codio in order to understand those examples inside and out.

You are also responsible for the material in the textbook through Chapter 6. It is best to skim the textbook to see what concepts if any are discussed in the book but not in lecture. That is where your focus should be.

Below is a list of terms and concepts that have been mentioned in the lectures that you should be familiar with:

1. Algorithm
2. Computer Science
3. Linear Search
4. Binary Search
5. Pseudocode
6. Selection Sort
7. Insertion Sort
8. $T(n)$ vs $O(n)$
9. Selection Sort Efficiency
10. Linear Search Efficiency
11. Big-O of the 4 algorithms: Linear Search, Binary Search, Selection Sort, Insertion Sort
12. Primitive Data Types
13. Non Primitive Data Types
14. Scanner Class
15. Math Class
16. String Class
17. Declaration of variables
18. Initialization vs Instantiation
19. The new keyword
20. The this keyword
21. The dot operator
22. Method Signatures
23. Accessor and Mutators
24. Constructors

- 25. Instance Variables
- 26. Access Modifiers
- 27. The final keyword
- 28. If statement Else Statement If else statement
- 29. Traditional For Loops
- 30. While Loops
- 31. The main method
- 32. Object Oriented Programming

This is just a common list of terms. There are more specific terms from the lectures and the textbook that you are responsible for, use this as a starting point for studying, not the whole efforts of your studying.

It is also heavily recommended that you complete the Practice Questions that Professor Cannon posted relating to the exam, it is your best estimate for what the exam will look like.

Best of Luck and be sure to ask any questions you have on ED and to go to office hours for any assistance on the material