

## CSC 306 FINAL EXAMINATION STUDY GUIDE

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The final exam will be comprehensive, so make sure you refer to all previous study guides.

You should understand everything about building a compiler / interpreter from beginning to end: lexical analysis, syntax analysis, code generation / internal representation, and execution phase. Understand how to design a class hierarchy for an internal representation for a language with features similar to CMM.

As far as features of C++, you need to understand the use of `const` on variables, on parameters, and on member functions of classes. You also need to understand the various types of conditions that are described by the keyword `static`: static local variables, static global variables, and static class members.

Use of the keyword `extern`, and the concept of `friend` functions and classes.

Make sure you understand the concept of polymorphism (virtual functions).