

CS 327 Syllabus

Fall 2026

Course Description

A study of compiler design including language definition, syntactic analysis, lexical analysis, storage allocation, error detection and recovery, code generation and optimization problems. Prerequisite: CS 226.

Course Objectives

Students successfully completing this course will be able to:

- Specify the lexical and syntactic structures of languages using regular expressions and context-free grammars.
- Develop lexical analyzers and parsers with and without tools.
- Construct parse trees.
- Build type checkers.
- Build intermediate code generators.
- Write code generators that generate amd-64 assembly.
- Understand and implement basic optimization techniques.

Textbook

Compilers, Principles, Techniques, and Tools, by Aho, Lam, Sethi, and Ullman

Grading

Homework and Projects	40%
Exam 1	20%
Exam 2	20%
Final Exam	20%

No makeup exams will be given for any reason. If you miss an exam for any other reason, that grade will be replaced by your grade on the final exam.

Academic Honesty

Working together on programs is not allowed. Copying of programs from any source, including classmates and the Internet, is not allowed. You are allowed to talk to classmates and others about programs, but you are not allowed to look at anyone else's code, either to give or receive help, other than the textbook or code provided by the instructor.