

CS419 Compiler Construction

Lecture 1

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Course Information

- **Course Number:** CS419
- **Course Name:** Compiler Construction
- **Teaching Method:** Face-to-Face

Course Outline

- Ch. 1: Introduction
- Ch. 2: A simple syntax-directed translator
- Ch. 3: Lexical analysis
- Ch. 4: Syntax analysis
- Ch. 5: Syntax-directed translation
- Ch. 6: Intermediate code generation
- Ch. 7: Run-time environments
- Ch. 8: Code generation
- Ch. 9: Code optimization

Course Requirement

- **Prerequisites:** Algorithms and Data Structures (CS 222 & CS223)
- **Textbook:** “Compilers: Principles, Techniques, and Tools” by A.V. Aho, M. S. Lam, R. Sethi, and J.D. Ullman

Course Overview

- Understand the design and construction principles of programming languages' compilers
- Learn new concepts, techniques, and tools that can be applied to build compilers
- Be familiar with compiler analysis and optimization techniques